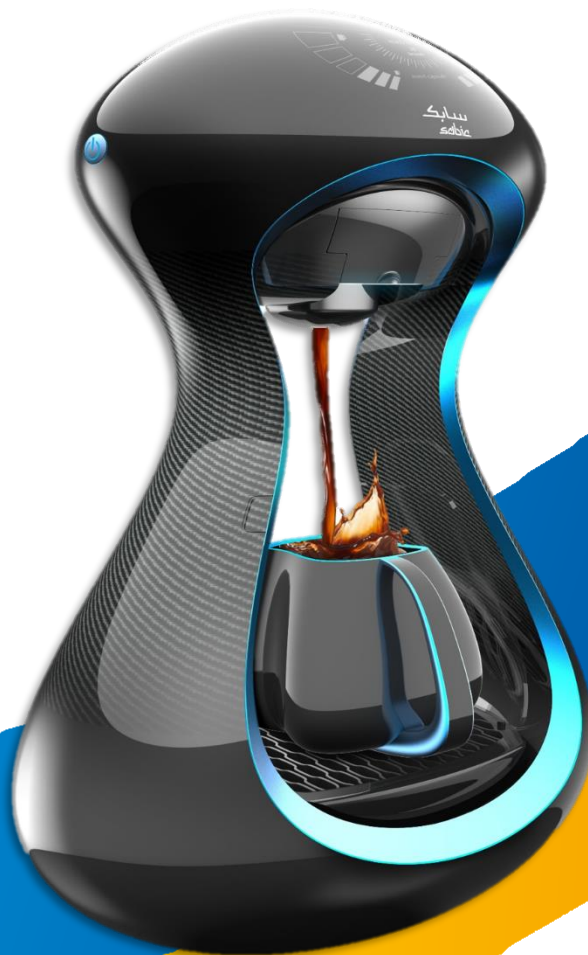


ENHANCING EFFICIENCY AND DURABILITY

SABIC® PP COMPOUNDS PORTFOLIO OVERVIEW



EFFICIENT SOLUTIONS FOR YOUR NEEDS

SABIC® PP Compounds for
innovation, production and
performance benefits.



SABIC® PP COMPOUNDS

SABIC® PP Compounds are materials based on polypropylene that is blended with other components such as impact modifiers, mineral fillers, glass fibers, pigments and stabilizers. These compounds are based on SABIC's advanced polypropylenes and provide properties such as improved strength and stiffness, while maintaining the low density and chemical resistance known for polypropylenes. STAMAX™ resins are long glass fiber reinforced polypropylene (LGF PP) compounds offering potential benefits for innovation, production and cost/performance balance.

GLASS FIBER REINFORCED

The properties of Glass Fiber Reinforced SABIC® PP Compound grades include high stiffness, molded part strength, and continuous performance at elevated temperatures. These advantages combined with low moisture sensitivity can help replace thermoplastic materials such as polyamides (PA). Compared to ABS, the chemical resistance of glass fiber reinforced SABIC® PP Compounds aim to offer improved long term performance of your applications.

Glass Fiber Reinforced SABIC® PP Compound products can be used in high performance applications such as washing machine tumble, water management system parts. It also offers a low cost alternative for materials used in structural parts of furnitures and electrical power tools.

MINERAL FILLED COMPOUNDS

Talc filled SABIC® PP Compound grades aim to offer an upgrade in performance versus standard PP resins with an improved balance of stiffness and heat resistance. They also enable achieving lower part thickness thus potentially lower cost.

Talc filled PP compound products are widely used in diverse industries for various applications including automotive HVAC systems, dishwasher parts, air conditioner fan blades and food containers. SABIC's PP base resins with high impact resistance and low emission enables high performance of the mineral filled PP compounds.

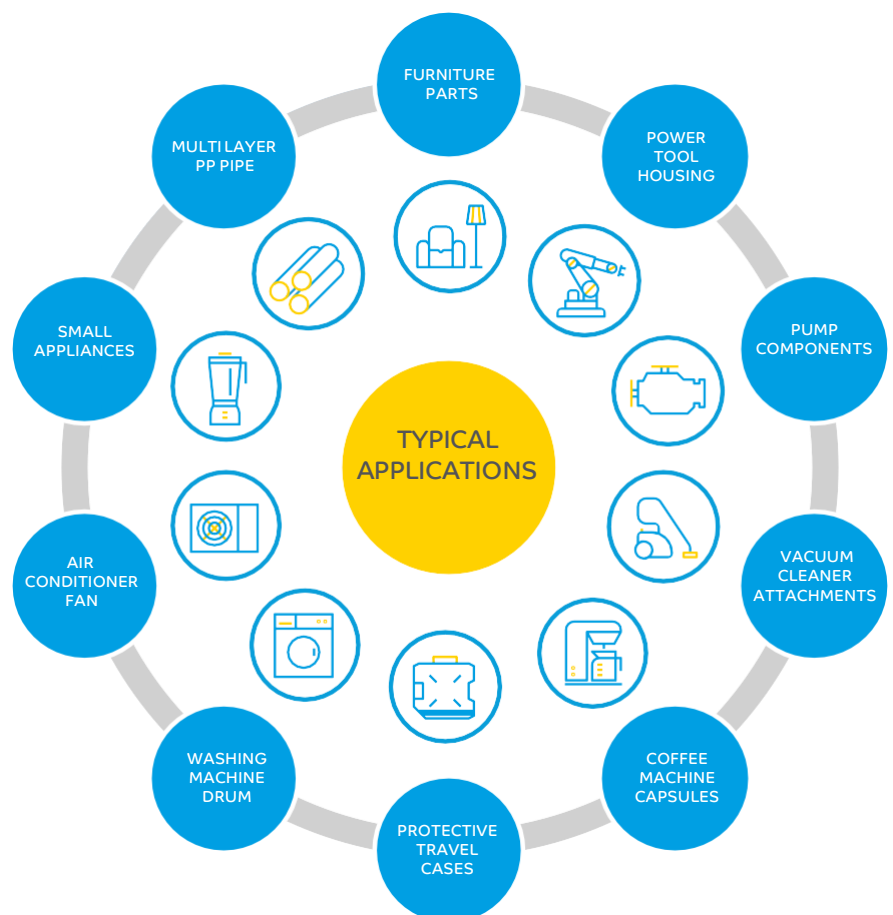
TYPICAL APPLICATIONS

SABIC PP Compound products are typically used in automotive applications, home appliances, small appliances, electrical power tools and various electrical equipments, water pumps and water management systems, furnitures, pipe and construction industries.

POTENTIAL BENEFITS

Widely utilized across many industries, SABIC® PP Compounds bring significant value to

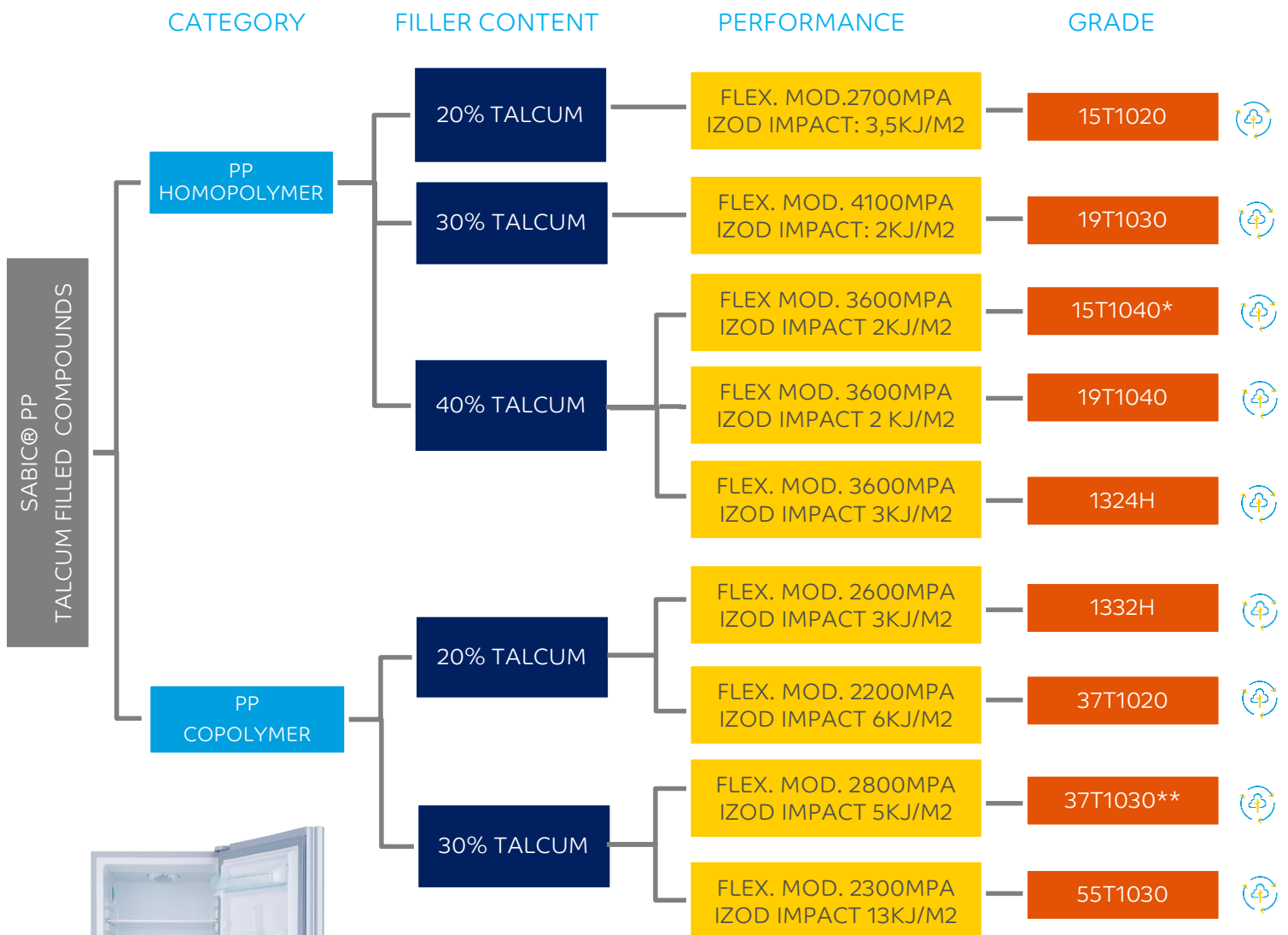
- The specific needs of your applications over its lifetime by offering an upgraded material property balance compared to standard PP.
- Reduce production costs by leveraging the lower density and ease of processing of PP to replace other thermoplastic materials.
- Enabling total system cost reduction by eliminating secondary operations such as painting, coating or assembly.



SABIC® PP COMPOUNDS PORTFOLIO OVERVIEW

(POTENTIAL PRODUCTS PER APPLICATIONS)

REFRIGERATORS



* Available in US
** Available in KSA

REFERENCE TO AVAILABILITY FROM TRUCIRCLE™
PORTFOLIO



Certified renewable PP made with bio-feedstock

REFRIGERATORS

SABIC® PP COMPOUND HALOGEN FREE- FR					
CATEGORY	FILLER CONTENT		PERFORMANCE		GRADE
SHORT GLASS FIBER (SGF) PP	UNFILLED	PP COPOLYMER	0%	TENSILE MODULUS 960MPa UL 94 V0 @2mm	H1200
		PP HOMOPOLYMER	15%	TENSILE MODULUS 4.7 GPa UL 94 V0 @3mm	H1015
			20%	TENSILE MODULUS 6.4 GPa UL 94 V0 @1.5 mm 5VA 3mm	H1020
			25%	TENSILE MODULUS 7.6 GPa UL 94 V0 @1.5 mm 5VA 3mm	H1025
			30%	TENSILE MODULUS 8.7 GPa UL 94 V0 @1.5 mm 5VA 3mm	H1030
			PP COPOLYMER	30%	TENSILE MODULUS 7.5 GPa UL 94 V0 @1.5 mm
	STAMAX™ RESIN (LGF PP)	PP COPOLYMER	30%	TENSILE MODULUS 8.1 GPa UL 94 V0@3.0 mm	30YH530










**Available in KSA

REFERENCE TO AVAILABILITY FROM TRUCIRCLE™
PORTFOLIO



Certified renewable PP made with bio-feedstock

DISHWASHERS

CATEGORY		FILLER CONTENT	PERFORMANCE	GRADE
SABIC® PP TALCUM FILLED COMPOUNDS	PP HOMOPOLYMER	20% TALCUM	FLEX. MOD. 3300MPA CHARPY UN. 48KJ/M2	1220D 
			FLEX. MOD. 2700MPA IZOD IMPACT: 3,5KJ/M2	15T1020 
		30% TALCUM	FLEX. MOD. 4150MPA CHARPY UN. >40KJ/M2	1230D 
			FLEX MOD. 3600MPA IZOD IMPACT 2 KJ/M2	19T1040 
		40% TALCUM	FLEX. MOD. 5400MPA CHARPY UN. 20KJ/M2	1240D 
	PP COPOLYMER	20% TALCUM	FLEX. MOD. 2200MPA IZOD IMPACT 6KJ/M2	37T1020 
		30% TALCUM	FLEX. MOD. 3000MPA CHARPY UN. 65KJ/M2	1030D* 



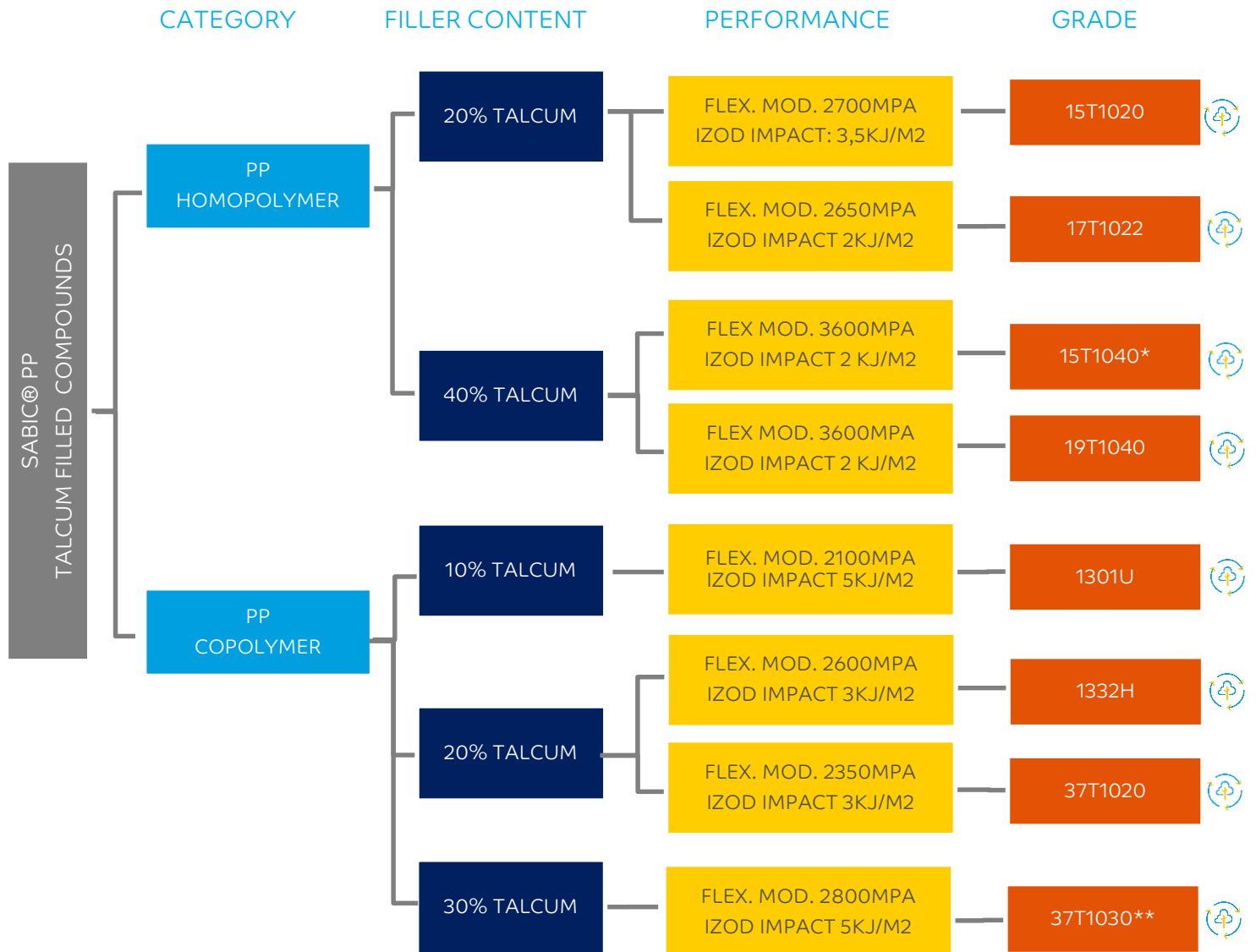
*UL 94, UL 746B and UL 749 data is available on request.

REFERENCE TO AVAILABILITY FROM TRUCIRCLE™
PORTFOLIO



Certified renewable PP made with bio-feedstock

WASHING MACHINES



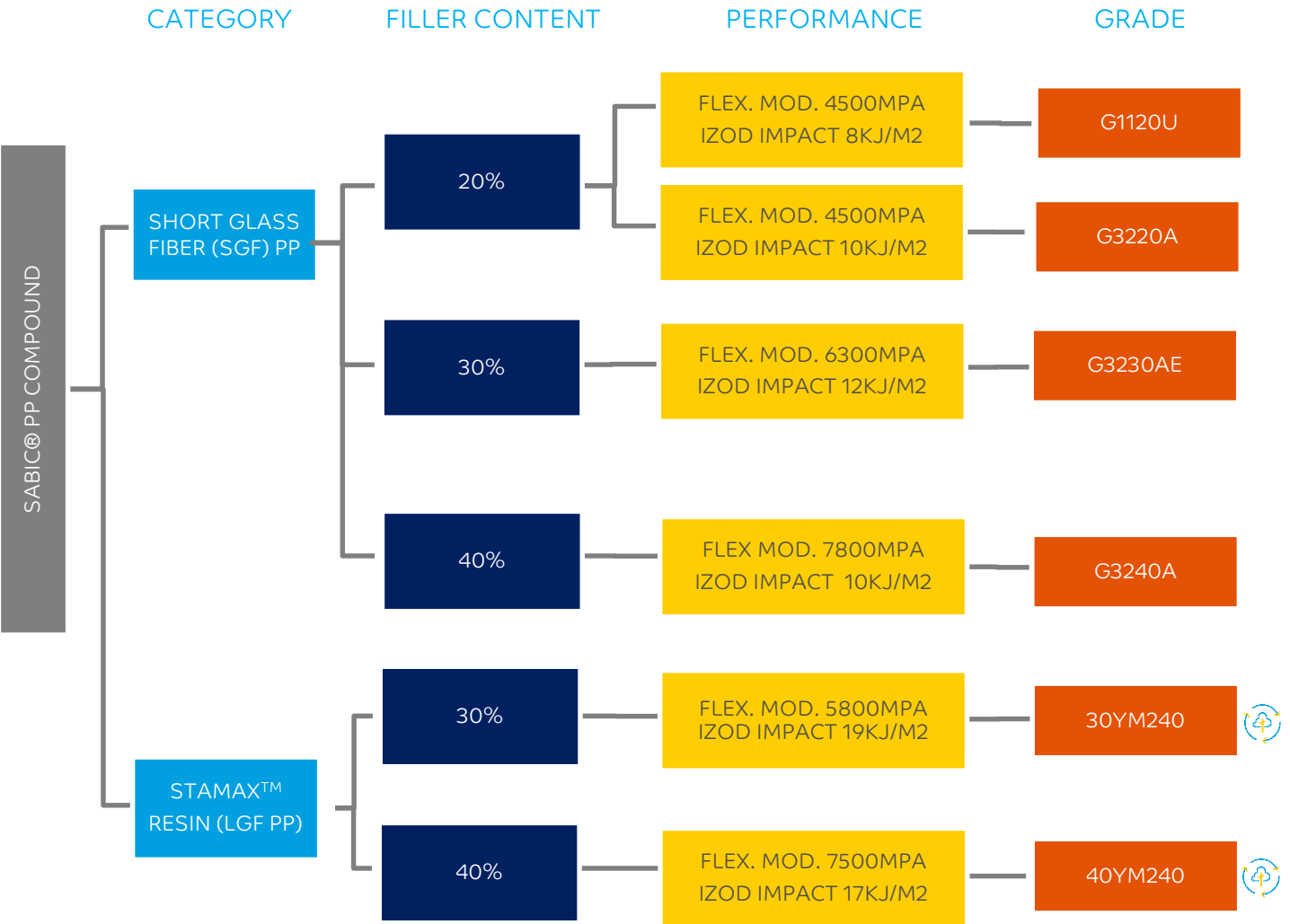
* Available in US
** Available in KSA

REFERENCE TO AVAILABILITY FROM TRUCIRCLE™
PORTFOLIO



Certified renewable PP made with bio-feedstock

WASHING MACHINES



REFERENCE TO AVAILABILITY FROM TRUCIRCLE™ PORTFOLIO



Certified renewable PP made with bio-feedstock

WASHING MACHINES

		CATEGORY	FILLER CONTENT	PERFORMANCE	GRADE
SABIC® PP COMPOUND HALOGEN FREE - FR	UNFILLED	PP COPOLYMER	0%	TENSILE MODULUS 960MPa UL 94 V0 @2mm	H1200
			15%	TENSILE MODULUS 4.7 GPa UL 94 V0 @3mm	H1015
	SHORT GLASS FIBER (SGF) PP	PP HOMOPOLYMER	20%	TENSILE MODULUS 6.4 GPa UL 94 V0 @1.5 mm 5VA 3mm	H1020
			25%	TENSILE MODULUS 7.6 GPa UL 94 V0 @1.5 mm 5VA 3mm	H1025
			30%	TENSILE MODULUS 8.7 GPa UL 94 V0 @1.5 mm 5VA 3mm	H1030
			30%	TENSILE MODULUS 7.5 GPa UL 94 V0 @1.5 mm	H1130**
	PP COPOLYMER	30%	TENSILE MODULUS 8.1 GPa UL 94 V0@3.0 mm	30YH530	
	STAMAX™ RESIN (LGF PP)	PP COPOLYMER	30%	TENSILE MODULUS 8.1 GPa UL 94 V0@3.0 mm	30YH530



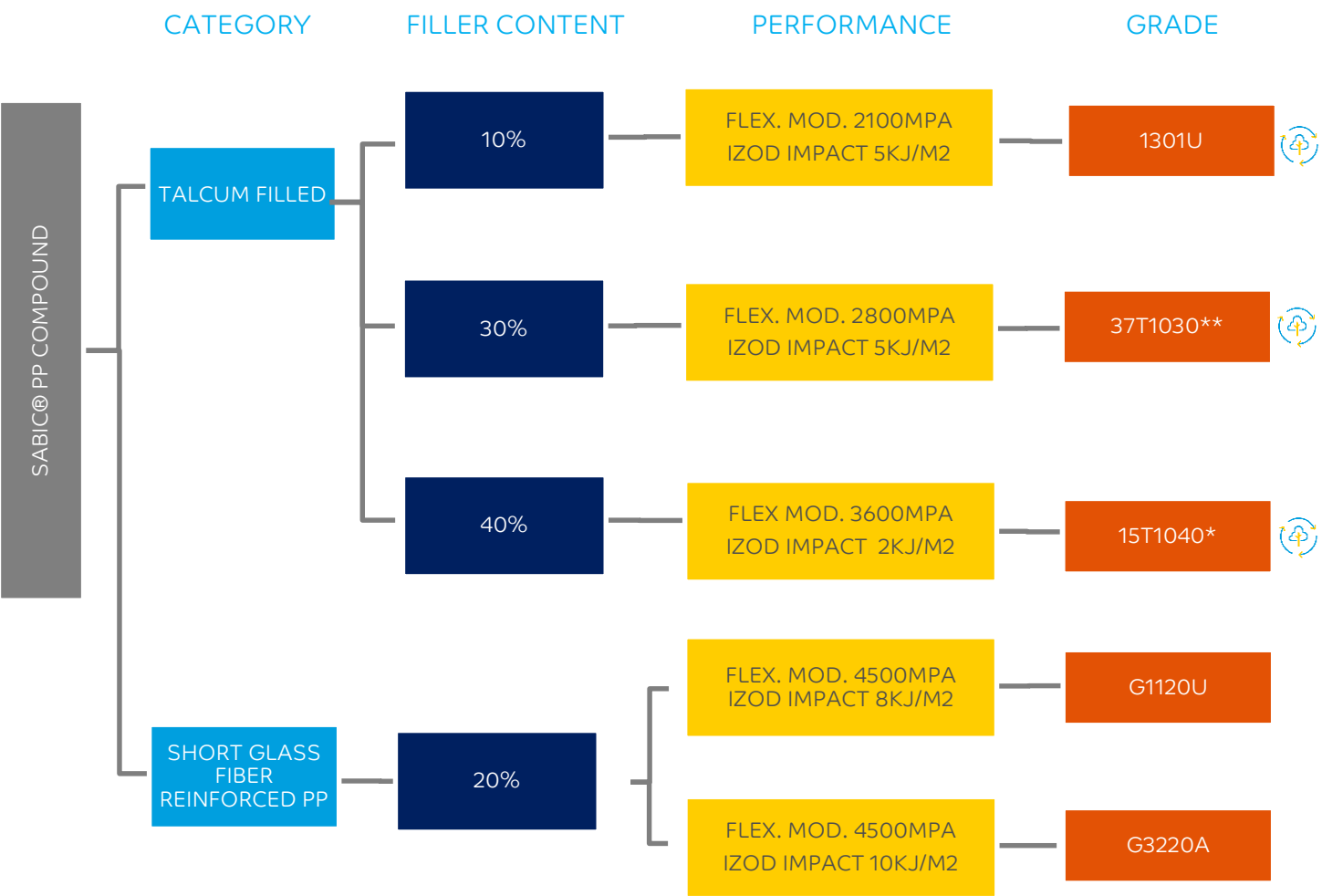
**Available in KSA

REFERENCE TO AVAILABILITY FROM TRUCIRCLE™
PORTFOLIO



Certified renewable PP made with bio-feedstock

DRYERS



* Available in US

** Available in KSA


REFERENCE TO AVAILABILITY FROM TRUCIRCLE™ PORTFOLIO



Certified renewable PP made with bio-feedstock

DRYERS

	CATEGORY	FILLER CONTENT	PERFORMANCE	GRADE	
SABIC® PP COMPOUND HALOGEN FREE- FR	UNFILLED	PP COPOLYMER	0%	TENSILE MODULUS 960MPa UL 94 V0 @2mm	H1200
	SHORT GLASS FIBER (SGF) PP	PP HOMOPOLYMER	15%	TENSILE MODULUS 4.7 GPa UL 94 V0 @3mm	H1015
			20%	TENSILE MODULUS 6.4 GPa UL 94 V0 @1.5 mm 5VA 3mm	H1020
			25%	TENSILE MODULUS 7.6 GPa UL 94 V0 @1.5 mm 5VA 3mm	H1025
			30%	TENSILE MODULUS 8.7 GPa UL 94 V0 @1.5 mm 5VA 3mm	H1030
		PP COPOLYMER	30%	TENSILE MODULUS 7.5 GPa UL 94 V0 @1.5 mm	H1130**
	STAMAX™ RESIN (LGF PP)	PP COPOLYMER	30%	TENSILE MODULUS 8.1 GPa UL 94 V0@3.0 mm	30YH530














**Available in KSA

REFERENCE TO AVAILABILITY FROM TRUCIRCLE™
PORTFOLIO



Certified renewable PP made with bio-feedstock

COFFEE MACHINE

		CATEGORY	FILLER CONTENT	PERFORMANCE	GRADE	
SABIC® PP TALCUM FILLED COMPOUNDS	PP HOMOPOLYMER	20% TALCUM		FLEX. MOD.3000MPA IZOD IMPACT: 3KJ/M2	1961*	
				FLEX. MOD. 2700MPA IZOD IMPACT: 3,5KJ/M2	15T1020	
				FLEX MOD. 4100MPA IZOD IMPACT 2KJ/M2	19T1030	
		40% TALCUM		FLEX MOD. 3600MPA IZOD IMPACT 2 KJ/M2	19T1040	
				FLEX. MOD. 3600MPA IZOD IMPACT 3KJ/M2	1324H	
	PP COPOLYMER	20% TALCUM		FLEX. MOD. 2300MPA IZOD IMPACT 6,5KJ/M2	37T1020	
				FLEX. MOD. 2600MPA IZOD IMPACT 3KJ/M2	1332H	
		30% TALCUM		FLEX. MOD. 2200MPA IZOD IMPACT 6KJ/M2	37T1020	
				FLEX. MOD. 2300MPA IZOD IMPACT 13KJ/M2	55T1030	



*FDA approved

REFERENCE TO AVAILABILITY FROM TRUCIRCLE™
PORTFOLIO



Certified renewable PP made with bio-feedstock

GARDEN & POWER TOOLS

	CATEGORY	FILLER CONTENT	PERFORMANCE	GRADE	
SABIC® PP COMPOUND HALOGEN FREE - FR	UNFILLED	PP COPOLYMER	0%	TENSILE MODULUS 960MPa UL 94 V0 @2mm	H1200
	SHORT GLASS FIBER (SGF) PP	PP HOMOPOLYMER	15%	TENSILE MODULUS 4.7 GPa UL 94 V0 @3mm	H1015
			20%	TENSILE MODULUS 6.4 GPa UL 94 V0 @1.5 mm 5VA 3mm	H1020
			25%	TENSILE MODULUS 7.6 GPa UL 94 V0 @1.5 mm 5VA 3mm	H1025
			30%	TENSILE MODULUS 8.7 GPa UL 94 V0 @1.5 mm 5VA 3mm	H1030
		PP COPOLYMER	30%	TENSILE MODULUS 7.5 GPa UL 94 V0 @1.5 mm	H1130**
	STAMAX™ RESIN (LGF PP)	PP COPOLYMER	30%	TENSILE MODULUS 8.1 GPa UL 94 V0@3.0 mm	30YH530



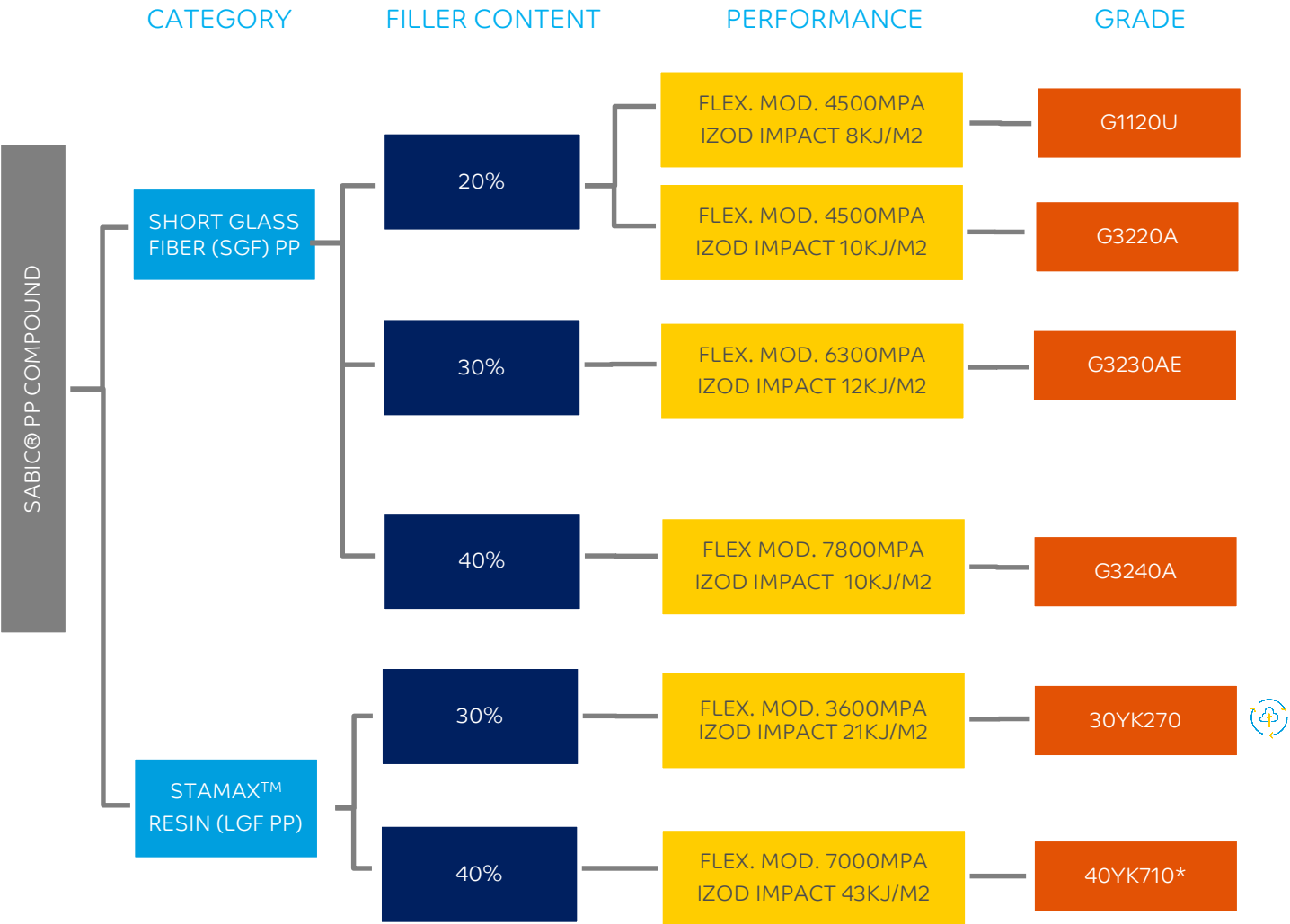
**Available in KSA

REFERENCE TO AVAILABILITY FROM TRUCIRCLE™ PORTFOLIO



Certified renewable PP made with bio-feedstock

GARDEN & POWER TOOLS



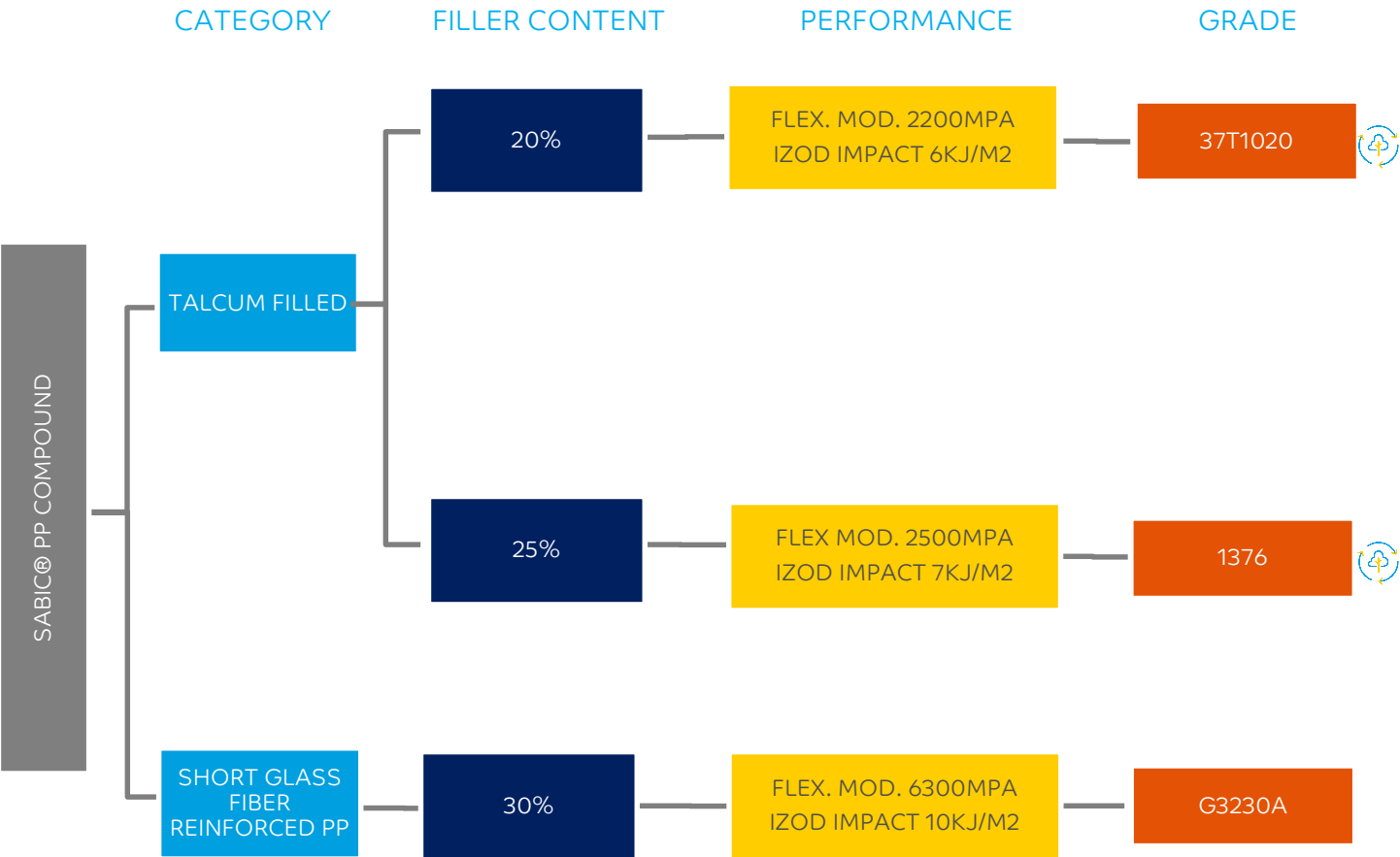
*Please check the availability in APAC and in Europe with your sales manager

REFERENCE TO AVAILABILITY FROM TRUCIRCLE™ PORTFOLIO



Certified renewable PP made with bio-feedstock

HIGH PRESSURE WATER JET CLEANER








REFERENCE TO AVAILABILITY FROM TRUCIRCLE™ PORTFOLIO



Certified renewable PP made with bio-feedstock

VACUUM CLEANERS

CATEGORY		FILLER CONTENT	PERFORMANCE	GRADE
SABIC® PP COMPOUNDS	TALCUM FILLED	0% TALCUM	TENSILE MOD 1550MPa IZOD IMPACT 11KJ/M2	58MNK10/CX02-81 
		10% TALCUM	FLEX. MOD. 2100MPa IZOD IMPACT 5KJ/M2	1301U 
		20% TALCUM	FLEX. MOD. 2200MPa IZOD IMPACT 6KJ/M2	37T1020 
			FLEX. MOD. 2300MPa IZOD IMPACT 6KJ/M2	3237U 
		25% TALCUM	FLEX. MOD. 2500MPa IZOD IMPACT 7KJ/M2	1376 

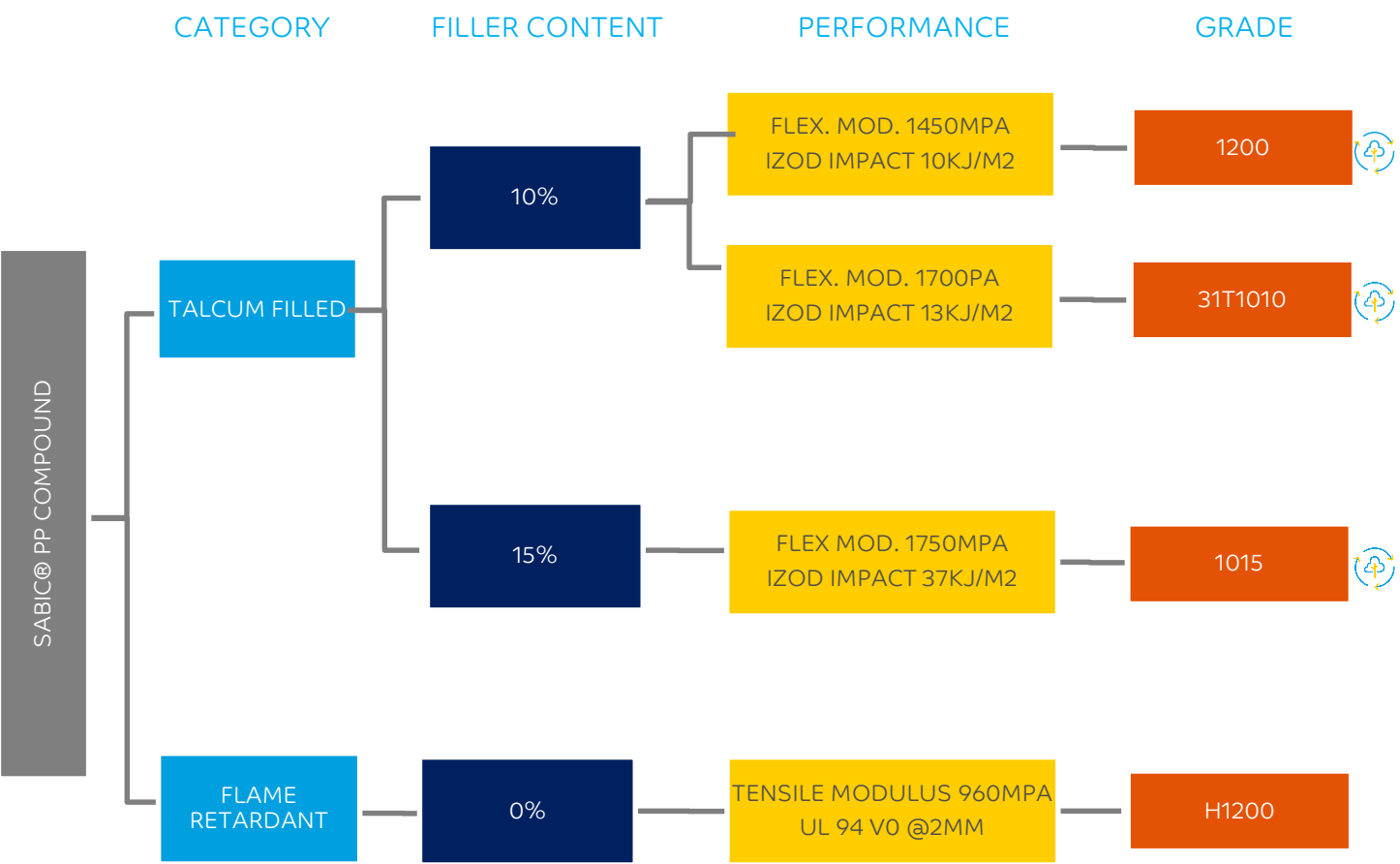


REFERENCE TO AVAILABILITY FROM TRUCIRCLE™
PORTFOLIO



Certified renewable PP made with bio-feedstock

TRANSPORT CONTAINERS



REFERENCE TO AVAILABILITY FROM TRUCIRCLE™ PORTFOLIO



Certified renewable PP made with bio-feedstock

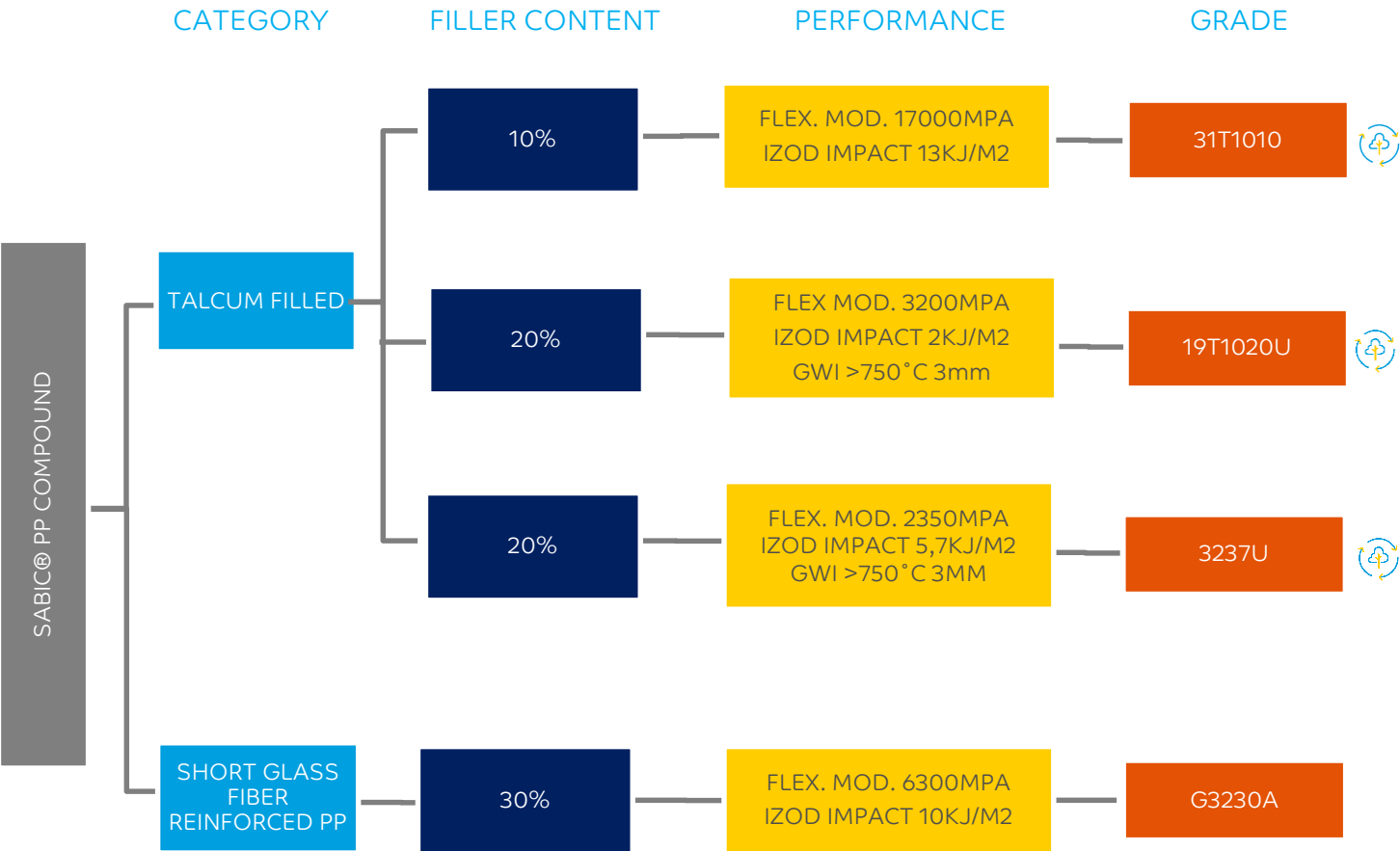
FLOATING PV PANELS

	CATEGORY	FILLER CONTENT	PERFORMANCE	GRADE
SABIC® PP COMPOUNDS	UNFILLED FR	PP COPOLYMER	MFI 4G/10MIN IZOD IMPACT: NB FLEX. MOD 1200MPA UL V0 2,5MM	4ex-25375
	2.5% TALCUMFILLED	PP COPOLYMER	MFI 14G/10MIN IZOD IMPACT 27 KJ/M2 FLEX. MOD. 1000 MPA	1650U*
	20% TALCUMFILLED	PP HOMOPOLYMER	MFI 6,5G/10MIN IZOD IMPACT 3KJ/M2 FLEX. MOD. 2500MPA	1520UX
	20% SHORT GLASS FIBER (SGF) PP	PP HOMOPOLYMER	MFI 18G/10MIN IZOD IMPACT: 4,7KJ/M2 FLEX MOD. 4600 MPA	G1520U*

*FDA approved



E&E

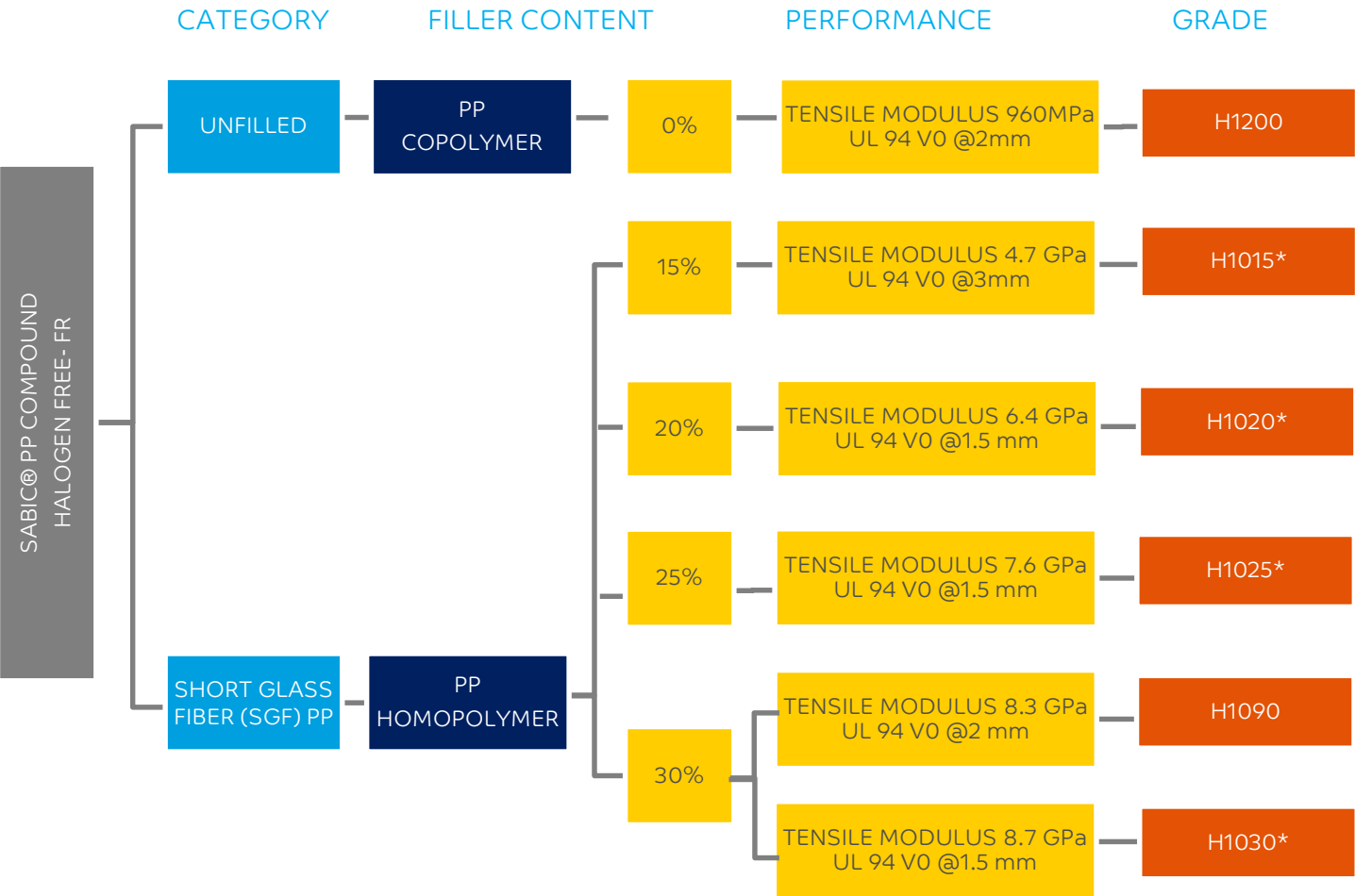


REFERENCE TO AVAILABILITY FROM TRUCIRCLE™ PORTFOLIO



Certified renewable PP made with bio-feedstock

E&E



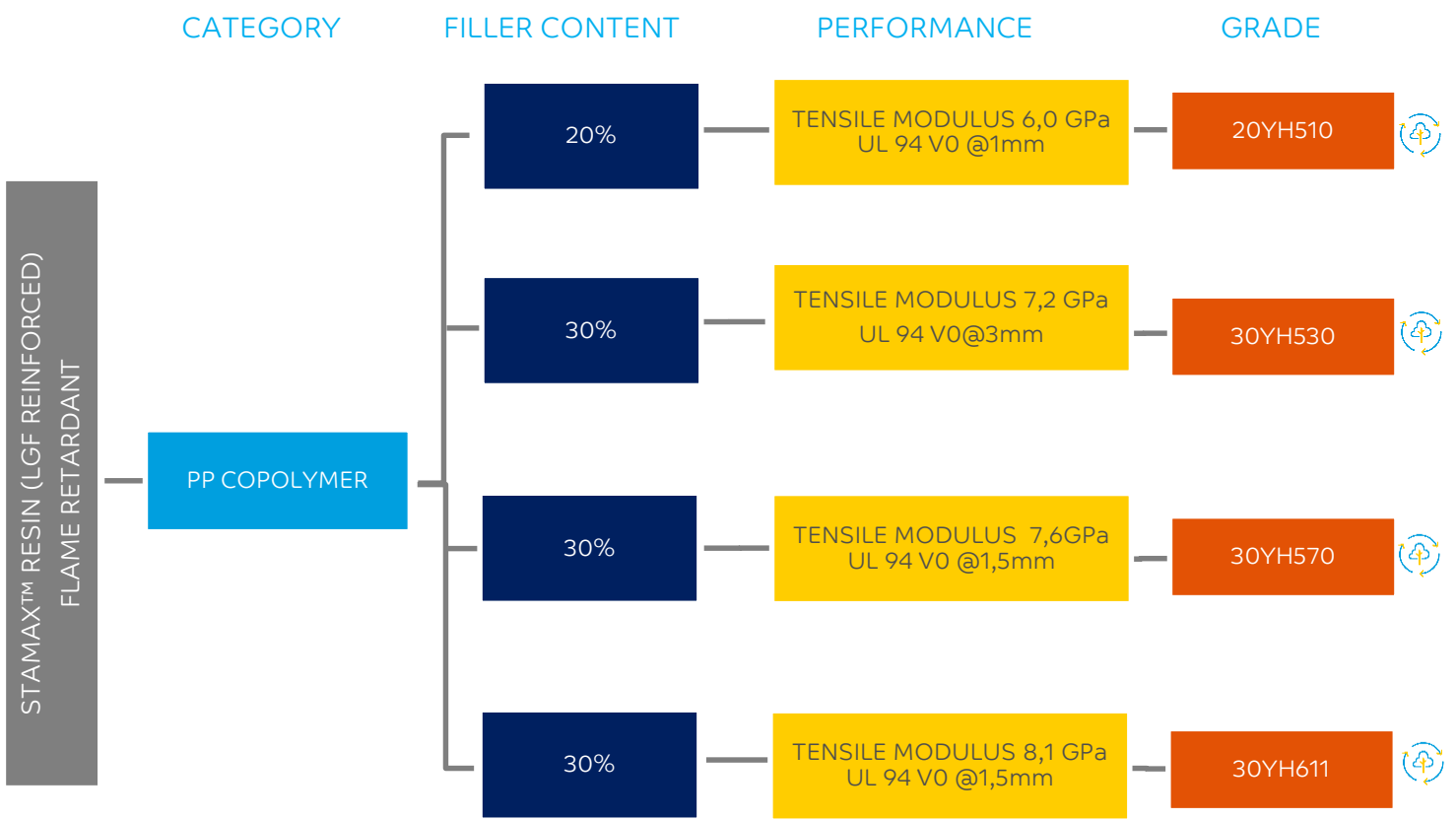
*Grades are available in Natural, black and RAL 7035

REFERENCE TO AVAILABILITY FROM TRUCIRCLE™
PORTFOLIO



Certified renewable PP made with bio-feedstock

EV BATTERY



REFERENCE TO AVAILABILITY FROM TRUCIRCLE™ PORTFOLIO



Certified renewable PP made with bio-feedstock

OUR CERTIFICATIONS

SABIC's site in Genk, Belgium, is the industry-first to receive International Sustainability & Carbon Certification (ISCC) Plus accreditation for large-scale production of polypropylene (PP) compounds and STAMAX™ resins based on renewable and circular sources.



ISCC Plus certification of Genk plant by TÜV Nord underscores SABIC's commitment to building a more circular plastics industry. The ISCC Plus certification honors the implementation of a mass balance accounting system that traces the material flow across complex supply chains from the feedstock to final products. The approach allows OEMs to document and quantify the sustainability of their applications made from certified materials. Moreover, brand owners can use the certification to highlight the sustainable material content of their products, offering consumers a more responsible choice. The mass balance accounting follows predefined and transparent rules, which then define whether a product can be classified as renewable or circular. For SABIC, this means that for each ton of renewable or circular feedstock fed into the production process to substitute fossil-based feedstock, approximately one ton of the output material can be classified as either renewable or circular.

In addition, SABIC has performed a life cycle analysis (LCA) comparing the renewable and the traditional fossil-based routes according to PAS 2050

methodology for biogenic carbon accounting. The results show significant Global Warming Potential (GWP) reductions, with near CO2 neutrality achieved at a renewable content of 40 percent. On cradle-to-gate and cradle-to-gate plus end-of-life levels, each kilogram of SABIC® PP compound based on certified renewable feedstock can reduce fossil depletion by up to 40 percent and lessen the carbon footprint of applications by up to 95 percent.

ISO CERTIFICATIONS

SABIC EHSS Corporate achieved recertification in Responsible Care® 14001:2015 (Including ISO 14001).

SABIC polymers are manufactured at ISO9001 and ISO14001 certified production facilities. Our polymer grades that are in compliance with food and pharma safety standards are manufactured in assets that meet good manufacturing practice (GMP) standard requirements.

Our manufacturing sites that are mainly producing materials for automotive industry are certified with IATF 16949 standard. (International Automotive Task Force). The IATF 16949 standard has been developed by the automotive industry and comprises of ISO9001 and additional automotive specific requirements for the automotive supply chain.

All SABIC® PP, SABIC® PP Compounds and STAMAX™ resins are developed by using a stage gate process that is based on risk identification and mitigation approach, meeting the ISO9001 and IATF16949 standard for both automotive and non-automotive market demands. Highly qualified internal and accredited external laboratories are used during the development, prototyping and testing stages of our product development process ensuring robust product design that meets customer requirements.



SABIC IS IN THE **TOP 1% OF COMPANIES** in category basic chemicals, fertilizers, plastics & rubber assessed by Ecovadis*



CONTACT US

SABICHeadquarters

PO Box 5101
Riyadh 11422
Saudi Arabia
T +966 (0) 11 225 8000
F +966 (0) 11 225 9000
E info@sabic.com

EUROPE

SABIC Europe Head Office

PO Box 5151
6130 PD Sittard
The Netherlands
T +31 (46) 722 2222
F +31 (46) 722 0000
E info-eu@sabic.com

ASIA PACIFIC

SABIC Rest Of Asia Head Office

One Temasek Avenue
#06-01 Millenia Tower
Singapore 039192
T +65 655 725 55
F +65 653 181 01
E info-roa@sabic.com

SABIC Greater China Head Office

SABIC (Shanghai) Trading Co. Ltd.

2550, Xiupu Road
Pudong Shanghai 201319
China
T +86 21 2037 8188
F +86 21 2037 8288
E info-gc@sabic.com

UNITED STATES

SABIC Americas Head Office

Suite 100
2500 City West Boulevard
Houston, TX 77042
USA
T +1 713 532 4999
F +1 713 532 4994 E
E info-amr@sabic.com

DISCLAIMER: THE MATERIALS, PRODUCTS AND SERVICES OF SAUDI BASIC INDUSTRIES CORPORATION (SABIC) OR ITS SUBSIDIARIES OR AFFILIATES ("SELLER") ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH ARE AVAILABLE UPON REQUEST. INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS DOCUMENT ARE GIVEN IN GOOD FAITH. HOWEVER, SELLER MAKES NO EXPRESS OR IMPLIED REPRESENTATION, WARRANTY OR GUARANTEE (i) THAT ANY RESULTS DESCRIBED IN THIS DOCUMENT WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN OR APPLICATION INCORPORATING SELLER'S MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS. UNLESS OTHERWISE PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS, SERVICES OR RECOMMENDATIONS DESCRIBED IN THIS DOCUMENT. Each user is responsible for making its own determination as to the suitability of Seller's materials, products, services or recommendations for the user's particular use through appropriate end-use and other testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. Statements by Seller concerning a possible use of any material, product, service or design do not, are not intended to, and should not be construed to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of any material, product, service or design in a manner that infringes any patent or other intellectual property right. SABIC and brands marked with TM are trademarks of SABIC or its subsidiaries or affiliates.

© 2022 Saudi Basic Industries Corporation (SABIC). All Rights Reserved.

† Any brands, products or services of other companies referenced in this document are the trademarks, service marks and/or trade names of their respective holders.