Technical Data Sheet

Schuladur PCR GF 30

Polybutylene Terephthalate + PET
LyondellBasell Industries
Engineering Plastics

Product Description
30% glass fibre reinforced PBT/PET compound based on mechanical recycled sourcing. The product is available in cylindrical pellet form in several colors.
According to ISO 14021:2016 Schuladur PCR GF30 is a compound containing 30% of recycled material that is fully based on Post-Consumer Waste (PCW) from bottles.
Recycled content according to DIN SPEC 91446:2021-12: R30; PCR30
Data Quality Level according to DIN SPEC 91446:2021-12: DQL4

General	
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Recycled Content	• Yes, 30%
Automotive Specifications	• FORD WSB-M4D921-A Color: Black • GM GMW15702-019101 PBT+PET-GF30 Color: 96.8001 Black • GM GMW15702-019102 PBT+PET-GF30 Color: 96.8001 LS Black • GM GMW15702-019103 PBT+PET-GF30 Color: 96.8082 LM Black • GM GMW15702-019104 PBT+PET-GF30 Color: 96.8069 LW Black
UL File Number	• E86615
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PBT+PET-GF

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.55 g/cm³	1.55 g/cm³	ISO 1183/A
Apparent (Bulk) Density	0.80 g/cm³	0.80 g/cm³	ISO 60
Melt Volume-Flow Rate (MVR) (260°c/2.16 Kg)	17 cm³/10min	17 cm³/10min	ISO 1133
Water Absorption			ISO 62
Equilibrium, 73°f (23°c), 50% Rh	0.30 %	0.30 %	
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	1.60E+6 psi	11000 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	20600 psi	142 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.1 %	2.1 %	ISO 527-2/1A/5
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°f (-30°c)	3.8 ft·lb/in²	8.0 kJ/m²	
73°f (23°c)	3.8 ft·lb/in²	8.0 kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°f (-30°c)	23 ft·lb/in²	48 kJ/m²	
73°f (23°c)	24 ft·lb/in²	50 kJ/m²	
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Ball Indentation Hardness (H 961/30)	38100 psi	263 MPa	ISO 2039-1
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			
66 Psi (0.45 Mpa), Unannealed	437 °F	225 °C	ISO 75-2/Bf
264 Psi (1.8 Mpa), Unannealed	392 °F	200 °C	ISO 75-2/Af
Vicat Softening Temperature			
--	392 °F	200 °C	ISO 306/B50
--	421 °F	216 °C	ISO 306/A50
Ball Pressure Test (392°f (200°c))	Pass	Pass	IEC 60695-10-2

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Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1
Comparative Tracking Index	300 V	300 V	IEC 60112
Flammability	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Burning Rate			
0.0787 In (2.00 Mm)	1.1 in/min	29 mm/min	ISO 3795
0.0787 In (2.00 Mm)	1.1 in/min	29 mm/min	FMVSS 302
Flammability Classification			IEC 60695-11-10, -20
0.06 In (1.5 Mm)	HB	HB	
0.12 In (3.0 Mm)	HB	HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 In (1.5 Mm)	1290 °F	700 °C	
0.12 In (3.0 Mm)	1470 °F	800 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 In (1.5 Mm)	1340 °F	725 °C	
0.12 In (3.0 Mm)	1520 °F	825 °C	
Oxygen Index	19 %	19 %	ISO 4589-2

Additional Information

1.) Not for use in food contact applications
2.) Not for use in medical or pharmaceutical applications

A Certificate of Analysis (CoA) is provided with every lot. DSC data is available on request. Content of not intentionally added other plastics is below 1%.

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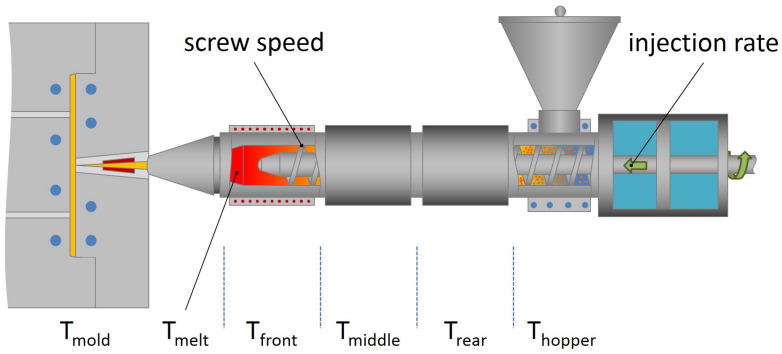

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	248 °F	120 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Processing (Melt) Temp	500 to 536 °F	260 to 280 °C
Mold Temperature	176 to 230 °F	80 to 110 °C
Screw Speed	< 709 in/min	< 18 m/min

Notes

These are typical property values not to be construed as specification limits.