

GELOY™ RESIN CR3020

REGION AMERICAS

DESCRIPTION

ASA, excellent weatherable, extrusion grade

TYPICAL PROPERTY VALUES

Revision 20170816

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	39	MPa	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	30	MPa	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	3.5	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	38	%	ASTM D 638
Tensile Modulus, 5 mm/min	1840	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	57	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	1860	MPa	ASTM D 790
Tensile Stress, yield, 50 mm/min	39	MPa	ISO 527
Tensile Stress, break, 50 mm/min	31	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	3.4	%	ISO 527
Tensile Strain, break, 50 mm/min	23	%	ISO 527
Tensile Modulus, 1 mm/min	1800	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	56	MPa	ISO 178
Flexural Modulus, 2 mm/min	1800	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	8	J/m	ASTM D 256
Izod Impact, notched, -30°C	1	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	4	J	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	25	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	3	kJ/m ²	ISO 180/1A
THERMAL			
Vicat Softening Temp, Rate B/50	100	°C	ASTM D 1525
HDT, 1.82 MPa, 3.2mm, unannealed	74	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.4E-04	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	2.E-04	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	100	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	77	°C	ISO 75/Af



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL			
Specific Gravity	1.07	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm (5)	0.55 – 0.63	%	SABIC method
Melt Flow Rate, 220°C/10.0 kgf	5	g/10 min	ASTM D 1238
Density	1.07	g/cm ³	ISO 1183
Melt Flow Rate, 220°C/10.0 kg	6	g/10 min	ISO 1133
PROFILE EXTRUSION			
Drying Temperature	80 – 90	°C	
Drying Time	3 – 6	hrs	
Drying Time (Cumulative)	12	hrs	
Minimum Moisture Content	0.02	%	
Melt Temperature	225 – 255	°C	
Barrel - Zone 1 Temperature	205 – 215	°C	
Barrel - Zone 2 Temperature	215 – 230	°C	
Barrel - Zone 3 Temperature	220 – 240	°C	
Barrel - Zone 4 Temperature	225 – 245	°C	
Adapter Temperature	225 – 245	°C	
Die Temperature	225 – 245	°C	
Calibrator Temperature	15 – 65	°C	

DISCLAIMER

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties.

It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us.

Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

SABIC as referred to herein means any legal entity belonging to the group of companies headed by Saudi Arabia Basic Industries Corporation.

