

GELOY™ CR3020 resin

Acrylonitrile Styrene Acrylate + SAN

SABIC Innovative Plastics

Message:

Low-gloss ASA for profile and capstock applications

General Information			
Features	Gloss, low		
Uses	Tread rubber		
	Profile		
RoHS Compliance	RoHS compliance		
Processing Method	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			
220°C/10.0 kg	5.0	g/10 min	ASTM D1238
220°C/10.0 kg	6.4	g/10 min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.55 - 0.63	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1840	MPa	ASTM D638
--	1800	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	39.0	MPa	ASTM D638
Yield	39.0	MPa	ISO 527-2/50
Fracture ³	30.0	MPa	ASTM D638
Fracture	31.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	3.5	%	ASTM D638
Yield	3.4	%	ISO 527-2/50
Fracture ⁵	38	%	ASTM D638
Fracture	23	%	ISO 527-2/50
Flexural Modulus			
50.0mm span ⁶	1860	MPa	ASTM D790
-- ⁷	1800	MPa	ISO 178
Flexural Stress			
--	56.0	MPa	ISO 178
Yield, 50.0mm span ⁸	57.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
-30°C	1.2	J/m	ASTM D256
23°C	8.4	J/m	ASTM D256
-30°C ⁹	3.8	kJ/m ²	ISO 180/1A
23°C ¹⁰	26	kJ/m ²	ISO 180/1A
Instrumented Dart Impact (23°C, Total Energy)	4.50	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	74.0	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹¹	77.0	°C	ISO 75-2/Af
Vicat Softening Temperature	100	°C	ISO 306/B50, ASTM D1525 ¹²
Linear thermal expansion coefficient			ISO 11359-2
Flow: -40 to 40°C	1.4E-4	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	2.0E-4	cm/cm/°C	ISO 11359-2
Extrusion	Nominal Value	Unit	
Drying Temperature	82.2 - 87.8	°C	
Drying Time	3.0 - 6.0	hr	
Cylinder Zone 1 Temp.	204 - 216	°C	
Cylinder Zone 2 Temp.	216 - 232	°C	
Cylinder Zone 3 Temp.	221 - 238	°C	
Cylinder Zone 4 Temp.	227 - 243	°C	
Adapter Temperature	227 - 243	°C	
Melt Temperature	227 - 254	°C	
Die Temperature	227 - 243	°C	
Calibration Temp, First	15.6 - 65.6	°C	
Extrusion instructions			
Drying Time (Cumulative): 12 hrsMinimum Moisture Content: .02 %			
NOTE			
1.	5.0 mm/min		
2.	Type 1, 50mm/min		
3.	Type 1, 50mm/min		
4.	Type 1, 50mm/min		
5.	Type 1, 50mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	80*10*4		
10.	80*10*4		
11.	80*10*4 mm		
12.	标准 B (120°C/h), 载荷2 (50N)		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

