

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		
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: 0.02 %			
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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