

GELOY™ XP7560 resin

Acrylonitrile Styrene Acrylate
SABIC Innovative Plastics Europe

Message:

GELOY XP7560 is a general purpose ASA/PC injection moulding grade, available in various colours.

General Information			
Features	General Purpose		
Uses	General Purpose		
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.10	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	20.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.40 to 0.60	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	0.80	%	
Equilibrium, 23°C, 50% RH	0.30	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	111		ISO 2039-2
Ball Indentation Hardness (H 358/30)	92.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2460	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	55.0	MPa	
Break	43.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	3.7	%	
Break	20	%	
Flexural Modulus ²	2500	MPa	ISO 178
Flexural Stress	82.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³			ISO 180/1A
-30°C	8.0	kJ/m ²	
23°C	20	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 100 mm Span	102	°C	ISO 75-2/Be

1.8 MPa, Unannealed, 100 mm Span	86.0	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	113	°C	ISO 306/A50
--	102	°C	ISO 306/B50
--	107	°C	ISO 306/B120
Ball Pressure Test			IEC 60695-10-2
75°C	Pass		
95°C ⁵	Pass		
CLTE - Flow (23 to 60°C)	9.5E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.20	W/m/K	ISO 8302
Flammability	Nominal Value		Test Method
Flame Rating (3.20 mm, Testing by SABIC)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 100	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.050	%	
Hopper Temperature	60.0 to 80.0	°C	
Rear Temperature	220 to 250	°C	
Middle Temperature	230 to 260	°C	
Front Temperature	240 to 270	°C	
Nozzle Temperature	230 to 260	°C	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	50.0 to 70.0	°C	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	80*10*4		
4.	120*10*4 mm		
5.	Approximate maximum		

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