GELOY™ EXGY0058 resin

Acrylonitrile Styrene Acrylate + PC

SABIC Innovative Plastics

Message:

Improved ASA/PC blend for high flow, 1.0mm V0 applications. Improved UV performance.

General Information			
Features	High liquidity		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.18	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	30.0	cm³/10min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	2680	MPa	ASTM D638
--	2680	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	60.0	MPa	ASTM D638
Yield [3]	65.0	MPa	ASTM D638
Yield	61.0	MPa	ISO 527-2/5
Yield	66.0	MPa	ISO 527-2/50
Fracture [4]	49.0	MPa	ASTM D638
Fracture [5]	47.0	MPa	ASTM D638
Fracture	46.0	MPa	ISO 527-2/5
Fracture	47.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield [6]	4.0	%	ASTM D638
Yield [7]	4.0	%	ASTM D638
Yield	4.0	%	ISO 527-2/5, ISO 527-2/50
Fracture [8]	58	%	ASTM D638
Fracture [9]	31	%	ASTM D638
Fracture	50	%	ISO 527-2/5
Fracture	21	%	ISO 527-2/50
Flexural Modulus [10]	2730	MPa	ISO 178
Flexural Stress	97.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [11] (23°C)	13	kJ/m²	ISO 179/1eA
Notched Izod Impact			

-30°C	90	J/m	ASTM D256
23°C	330	J/m	ASTM D256
0°C [12]	12	kJ/m²	ISO 180/1A
23°C [13]	13	kJ/m²	ISO 180/1A
Multi-Axial Instrumented Impact Energy	85.0	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature [14]			
0.45 MPa, unannealed, 64.0mm span	90.0	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	81.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	96.0	°C	ISO 306/B50
--	98.0	°C	ISO 306/B120
Linear thermal expansion coefficient			ISO 11359-2
Flow: -40 to 40°C	6.3E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	6.3E-5	cm/cm/°C	ISO 11359-2
Flammability	**Nominal Value**		**Test Method**
Flame Rating (1.00 mm, Testing by SABIC)	V-0		UL 94
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Viscosity (260°C, 1500 sec^-1)	105	Pa·s	ISO 11443
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0 - 90.0	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 - 80.0	°C	
Rear Temperature	200 - 230	°C	
Middle Temperature	220 - 260	°C	
Front Temperature	230 - 270	°C	
Nozzle Temperature	220 - 260	°C	
Processing (Melt) Temp	230 - 270	°C	
Mold Temperature	50.0 - 70.0	°C	
NOTE			
1.	50 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 50mm/min		
4.	Type 1, 5.0 mm/min		
5.	Type 1, 50mm/min		
6.	Type 1, 5.0 mm/min		
7.	Type 1, 50mm/min		
8.	Type 1, 5.0 mm/min		
9.	Type 1, 50mm/min		
10.	2.0 mm/min		
11.	80*10*4 sp=62mm		

12.	80*10*4
13.	80*10*4
14.	80*10*4 mm

Recommended distributors for this material

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