

GELOY™ XTPMFR10 resin

Acrylonitrile Styrene Acrylate + PC
SABIC Innovative Plastics Asia Pacific

Message:

Improved ASA/PC blend for high flow, 1.0mm V0 applications. Improved UV performance aesthetically and physically compared to alternatives.

General Information			
UL YellowCard	E207780-100711919		
Features	Good UV resistance		
	High liquidity		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	30.0	cm ³ /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/m ²	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/m ²	ISO 180/1A
23°C ¹³	13	kJ/m ²	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			
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 (1.0 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 - 90	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60 - 80	°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 - 70	°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

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