

GELOY™ XP4034 resin

Acrylonitrile Styrene Acrylate + PC

SABIC Innovative Plastics

Message:

GELOY XP4034 is a high heat modified ASA+PC alloy. It is a weatherable, injection mouldable product which is available in a wide range of colours. The product is recommended for automotive unpainted exterior applications.

General Information			
UL YellowCard	E45329-100370046		
Additive	heat stabilizer		
Features	Good weather resistance		
	Thermal Stability		
Uses	Automotive exterior parts		
RoHS Compliance	RoHS compliance		
Appearance	Available colors		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	15.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.40 - 0.60	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.70	%	ISO 62
Equilibrium, 23°C, 50% RH	0.25	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	98.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2350	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	55.0	MPa	ISO 527-2/50
Fracture	45.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	4.5	%	ISO 527-2/50
Fracture	35	%	ISO 527-2/50
Flexural Modulus ²	2500	MPa	ISO 178
Flexural Stress	85.0	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	120	mg	Internal method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³			ISO 180/1A

-30°C	8.0	kJ/m ²	ISO 180/1A
23°C	33	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, unannealed, 100 mm span	112	°C	ISO 75-2/Be
1.8 MPa, unannealed, 100 mm span	100	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	107	°C	ISO 306/B50
--	109	°C	ISO 306/B120
Injection	Nominal Value	Unit	
Drying Temperature	90.0 - 105	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.040	%	
Processing (Melt) Temp	260 - 275	°C	
Mold Temperature	50.0 - 70.0	°C	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	80*10*4		
4.	120*10*4 mm		

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