

GELOY™ EXGY0071 resin

Acrylonitrile Styrene Acrylate
SABIC Innovative Plastics

Message:

Next generation Gelay XTW ASA for high heat exterior applications. Outstanding weatherability and toughness. Metallic sparkle VisualFx.

General Information			
Features	Good weather resistance		
	Heat resistance, high		
	Good toughness		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	12	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	13.0	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal method
Flow: 3.20mm	0.40 - 0.70	%	Internal method
Transverse flow: 3.20mm	0.40 - 0.70	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.50	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2460	MPa	ASTM D638
--	2450	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	43.0	MPa	ASTM D638
Yield ³	46.0	MPa	ASTM D638
Yield	45.8	MPa	ISO 527-2/50
Fracture ⁴	36.0	MPa	ASTM D638
Fracture ⁵	37.0	MPa	ASTM D638
Fracture	36.5	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁶	2.5	%	ASTM D638
Yield ⁷	2.7	%	ASTM D638
Yield	2.8	%	ISO 527-2/50
Fracture ⁸	18	%	ASTM D638

Fracture ⁹	17	%	ASTM D638
Fracture	24	%	ISO 527-2/50
Flexural Modulus			
50.0mm span ¹⁰	2570	MPa	ASTM D790
-- ¹¹	2500	MPa	ISO 178
Flexural Stress			
--	64.0	MPa	ISO 178
Yield, 50.0mm span ¹²	74.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹³ (23°C)	8.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
-30°C	23	J/m	ASTM D256
23°C	140	J/m	ASTM D256
-30°C ¹⁴	2.5	kJ/m ²	ISO 180/1A
23°C ¹⁵	10	kJ/m ²	ISO 180/1A
Instrumented Dart Impact (23°C, Total Energy)	18.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	97.0	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	84.0	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹⁶	84.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	98.0	°C	ASTM D1525 ¹⁷
--	95.0	°C	ISO 306/B50
--	99.0	°C	ISO 306/B120
Linear thermal expansion coefficient			
Flow: -40 to 40°C	8.4E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	8.3E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	9.4E-5	cm/cm/°C	ASTM E831, ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	85.0 - 90.0	°C	
Drying Time	4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.040	%	
Suggested Shot Size	40 - 80	%	
Rear Temperature	215 - 250	°C	
Middle Temperature	220 - 255	°C	
Front Temperature	230 - 260	°C	
Nozzle Temperature	220 - 255	°C	
Processing (Melt) Temp	240 - 270	°C	
Mold Temperature	60.0 - 85.0	°C	

Back Pressure	0.300 - 1.00	MPa
Screw Speed	30 - 80	rpm
Vent Depth	0.038 - 0.076	mm

NOTE

1.	5.0 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.	1.3 mm/min
11.	2.0 mm/min
12.	1.3 mm/min
13.	80*10*4 sp=62mm
14.	80*10*4
15.	80*10*4
16.	80*10*4 mm
17.	标准 B (120°C/h), 载荷2 (50N)

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