GELOY™ FXTW26SK resin

Acrylonitrile Styrene Acrylate

SABIC Innovative Plastics

Message:

ASA, Xtreme weatherability, high heat, with VisualFx.

General Information			
Features	Good weather resistance Heat resistance, high		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.11	g/cm³	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	cm³/10min	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/m²	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/m²	ISO 180/1A
23°C [15]	10	kJ/m²	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 - 90	°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 - 85	°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)

Recommended distributors for this material

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