GELOY™ FXW710SK resin

Acrylonitrile Styrene Acrylate

SABIC Innovative Plastics Europe

Message:

GELOY FXW710SK is an ASA/SAN injection moulding grade. It is suitable for those applications that require sparkle colour effects.

General Information			
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.09	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR)			ISO 1133
220°C/10.0 kg	7.00	cm³/10min	
260°C/5.0 kg	8.00	cm³/10min	
Molding Shrinkage - Flow [1]	0.40 to 0.70	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	0.55	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	95		ISO 2039-2
Ball Indentation Hardness (H 358/30)	70.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1900	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	38.0	MPa	
Break	30.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	2.5	%	
Break	4.0	%	
Flexural Modulus [2]	1900	MPa	ISO 178
Flexural Stress	50.0	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	155	mg	Internal Method
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength [3]			ISO 179/1eA
-30°C	4.0	kJ/m²	
23°C	12	kJ/m²	
Notched Izod Impact Strength [4]			ISO 180/1A
-30°C	5.0	kJ/m²	
23°C	12	kJ/m²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature [5]			
0.45 MPa, Unannealed, 100 mm Span	88.0	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	75.0	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	86.0	°C	ISO 306/B50
--	91.0	°C	ISO 306/B120
Ball Pressure Test (75°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 60°C	9.0E-5	cm/cm/°C	
Transverse : 23 to 60°C	1.0E-4	cm/cm/°C	
Thermal Conductivity	0.21	W/m/K	ISO 8302
Electrical	**Nominal Value**	**Unit**	**Test Method**
Electric Strength (3.20 mm, in Oil)	16	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	5.20		
60 Hz	5.20		
1 MHz	3.21		
Dissipation Factor			IEC 60250
50 Hz	0.15		
60 Hz	0.15		
1 MHz	0.026		
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.00 mm, Testing by SABIC	HB		
3.00 mm, Testing by SABIC	HB		
Glow Wire Flammability Index (3.20 mm)	750	°C	IEC 60695-2-12
Oxygen Index	19	%	ISO 4589-2
Injection	**Nominal Value**	**Unit**	
Drying Temperature	75.0 to 85.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.040	%	
Hopper Temperature	60.0 to 80.0	°C	
Rear Temperature	210 to 240	°C	
Middle Temperature	220 to 250	°C	
Front Temperature	230 to 260	°C	
Nozzle Temperature	220 to 250	°C	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	40.0 to 70.0	°C	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		

3.	80*10*4 sp=62mm
4.	80*10*4
5.	120*10*4 mm

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China