GELOY™ CR7520 resin

Acrylonitrile Styrene Acrylate

SABIC Innovative Plastics

Message:

ASA copolymer. Automotive grilles and exteriors. Excellent weatherability, good flow/aesthetics and high impact. Rated f2 by UL.

General Information			
UL YellowCard	E207780-100072245		
Features	Copolymer Impact resistance, high Good liquidity Good weather resistance		
Uses	Application in Automobile Field Automotive exterior parts		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.06	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
220°C/10.0 kg	7.0	g/10 min	ASTM D1238
260°C/5.0 kg	13	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.70	%	Internal method
Water Absorption (Equilibrium, 23°C)	0.55	%	ASTM D570
Outdoor Suitability	f2		UL 746C
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	86		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	1790	MPa	ASTM D638
Tensile Strength [2]			ASTM D638
Yield	41.4	MPa	ASTM D638
Fracture	34.5	MPa	ASTM D638
Tensile Elongation [3] (Break)	40	%	ASTM D638
Flexural Modulus [4] (50.0 mm Span)	1790	MPa	ASTM D790
Flexural Strength [5] (Yield, 50.0 mm Span)	58.6	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-30°C	59	J/m	ASTM D256
23°C	320	J/m	ASTM D256

Instrumented Dart Impact (23°C, Total Energy)	25.4	J	ASTM D3763
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.20mm	87.8	°C	ASTM D648
0.45 MPa, unannealed, 6.40mm	90.6	°C	ASTM D648
1.8 MPa, unannealed, 3.20mm	76.7	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	79.4	°C	ASTM D648
1.8 MPa, annealed	95.6	°C	ASTM D648
Vicat Softening Temperature	99.4	°C	ASTM D1525 [6]
Linear thermal expansion coefficient			ASTM E831
Flow: -30 to 0°C	8.5E-5	cm/cm/°C	ASTM E831
Flow: -40 to 40°C	8.6E-5	cm/cm/°C	ASTM E831
Flow: 0 to 100°C	9.0E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	9.2E-5	cm/cm/°C	ASTM E831
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI	50.0	°C	UL 746
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+15	ohms	ASTM D257
Dielectric Strength (3.20 mm, in Oil)	16	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
50 Hz	5.20		ASTM D150
60 Hz	5.20		ASTM D150
1 MHz	3.21		ASTM D150
Dissipation Factor			ASTM D150
50 Hz	0.15		ASTM D150
60 Hz	0.15		ASTM D150
1 MHz	0.026		ASTM D150
Comparative Tracking Index (CTI)	PLC 0		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
Hot-wire Ignition (HWI)	PLC 3		UL 746
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (1.47 mm)	HB		UL 94
Optical	**Nominal Value**		**Test Method**
Gardner Gloss (60°, Untextured)	95		ASTM D523
Injection	**Nominal Value**	**Unit**	
Drying Temperature	82.2 - 87.8	°C	
Drying Time	3.0 - 6.0	hr	
Drying Time, Maximum	12	hr	
Suggested Max Moisture	0.040	%	
Suggested Shot Size	40 - 80	%	

Rear Temperature	221 - 249	°C
Middle Temperature	227 - 260	°C
Front Temperature	238 - 271	°C
Nozzle Temperature	238 - 271	°C
Processing (Melt) Temp	238 - 271	°C
Mold Temperature	54.4 - 76.7	°C
Back Pressure	0.689 - 1.38	MPa
Screw Speed	30 - 80	rpm
Vent Depth	0.038 - 0.076	mm

NOTE	
1.	50 mm/min
2.	Type 1, 50mm/min
3.	Type 1, 50mm/min
4.	1.3 mm/min
5.	1.3 mm/min
6.	标准 B (120°C/h), 载荷2 (50N)

Recommended distributors for this material

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