

Diamond Polymers DIAMALLOY GLY 7010 Sheet Extrusion Grade

Category : Polymer , Thermoplastic , ASA Polymer , Acrylonitrile/Styrene/Acrylate (ASA), Unreinforced, Molded

Material Notes:

Diamaloy GLY 7010 resin is a high-gloss, high impact grade of ASA (acrylonitrile-styrene-acrylate) with good resistance to weather aging. It has good melt strength for extrusion and thermoforming, and it can be easily coextruded. Applications: Typical applications include those requiring weatherability and high impact such as in pool and spa applications. As with any product, use of Diamaloy GLY 7010 resin in a given application must be tested (including but not limited to field testing) in advance by the user to determine suitability. Information Provided by Diamond Polymers, Inc. & Network Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-DIAMALLOY-GLY-7010-Sheet-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0050 cm/cm	0.0040 - 0.0050 in/in	ASTM D955
Melt Flow	3.5 g/10 min	3.5 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	
	3.7 g/10 min	3.7 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	91	91	ASTM D785
Tensile Strength at Break	35.0 MPa	5080 psi	chs 2.0 in/min; ASTM D638
Tensile Strength, Yield	42.0 MPa	6090 psi	chs 2.0 in/min; ASTM D638
Elongation at Break	40 %	40 %	chs 2.0 in/min; ASTM D638
Elongation at Yield	3.2 %	3.2 %	chs 2.0 in/min; ASTM D638
Tensile Modulus	1.922 GPa	278.8 ksi	chs 2.0 in/min; ASTM D638
Flexural Strength	60.0 MPa	8700 psi	chs 0.05 in/min; 2 in span; ASTM D790
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flexural Modulus	1.922 GPa	278.8 ksi	chs 0.05 in/min; 2 in span; ASTM D790
	@Thickness 3.17 mm	@Thickness 0.125 in	
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256
	@Thickness 3.17 mm,	@Thickness 0.125 in,	

Mechanical Properties	Temperature -30.0 °C Metric	Temperature -22.0 °F English	Comments
	4.81 J/cm	9.01 ft-lb/in	
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	ASTM D256
Impact Test	16.8 J	12.4 ft-lb	
	@Temperature -30.0 °C	@Temperature -22.0 °F	Total Energy; ASTM D3763
	24.2 J	17.8 ft-lb	
	@Temperature 23.0 °C	@Temperature 73.4 °F	Total Energy; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	
	@Temperature -40.0 - 37.8 °C	@Temperature -40.0 - 100 °F	ASTM E831
CTE, linear, Transverse to Flow	108 µm/m-°C	60.0 µin/in-°F	
	@Temperature -40.0 - 37.8 °C	@Temperature -40.0 - 100 °F	ASTM E831
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	0.125";, ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.0 °C	171 °F	0.125";, ASTM D648
Vicat Softening Point	102 °C	216 °F	ASTM D1525
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0590 in	

Optical Properties	Metric	English	Comments
Gloss	95 %	95 %	Untextured; 60°; ASTM D523

Electrical Properties	Metric	English	Comments
Hot Wire Ignition, HWI	3.0 sec	3.0 sec	PLC Code; ASTM 746A
High Amp Arc Ignition, HAI	0.00 arcs	0.00 arcs	PLC Code; ASTM 746A

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