

Diamond Polymers DIAMALLOY GLY FXW749 Sheet Extrusion Grade, Sparkle/Pearlescence

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

Material Notes:

Diamaloy GLY FXW749SK resin is a low impact grade of ASA (acrylonitrile-styrene-acrylate) with good resistance to weather aging and added visual effects (pearlescence). It has good melt strength for extrusion and thermoforming, and it can be easily coextruded. Applications: Typical applications include those requiring a special visual effect, weatherability, durability, and some impact i.e., thermoformed shower stalls and pool and spa applications. As with any product, use of Diamaloy GLY FXW749SK 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-FXW749-Sheet-Extrusion-Grade-SparklePearlescence.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	9.2 g/10 min @Load 10.0 kg, Temperature 220 °C	9.2 g/10 min @Load 22.0 lb, Temperature 428 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	chs 2.0 in/min; ASTM D638
Tensile Strength, Yield	54.0 MPa	7830 psi	chs 2.0 in/min; ASTM D638
Elongation at Break	8.5 %	8.5 %	chs 2.0 in/min; ASTM D638
Elongation at Yield	2.9 %	2.9 %	chs 2.0 in/min; ASTM D638
Flexural Strength	85.0 MPa @Thickness 3.17 mm	12300 psi @Thickness 0.125 in	chs 0.05 in/min; 2 in span; ASTM D790
Flexural Modulus	2.921 GPa @Thickness 3.17 mm	423.7 ksi @Thickness 0.125 in	chs 0.05 in/min; ASTM D790
Izod Impact, Notched	0.534 J/cm @Thickness 3.17 mm	1.00 ft-lb/in @Thickness 0.125 in	ASTM D256
Impact Test	3.62 J	2.67 ft-lb	Total Energy; ASTM D3763

Thermal Properties	Metric	English	Comments
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Thermal Properties	90.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ Metric	50.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ English	Comments
CTE, linear	@Temperature -40.0 - 37.8 $^\circ\text{C}$	@Temperature -40.0 - 100 $^\circ\text{F}$	ASTM E831
CTE, linear, Transverse to Flow	102 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$ @Temperature -40.0 - 37.8 $^\circ\text{C}$	56.7 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$ @Temperature -40.0 - 100 $^\circ\text{F}$	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	80.0 $^\circ\text{C}$	176 $^\circ\text{F}$	0.125";, ASTM D648
Vicat Softening Point	95.0 $^\circ\text{C}$	203 $^\circ\text{F}$	ASTM D1525

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