

Evonik CYRO ACRYLITE PLUS® ZD23 Impact Light Diffusing Acrylic Polymer

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, General Purpose, Molded , Acrylic, Heat Resistant, Molded , Acrylic, Impact Modified, Molded

Material Notes:

ACRYLITE PLUS® ZD23 impact light diffusion acrylic polymer is an amorphous, impact-modified thermoplastic molding and extrusion compound based on polymethyl methacrylate (PMMA). Typical properties of ACRYLITE PLUS® impact acrylic polymers are high weather resistance, high light transmission, improved resistance to stress cracking, good melt flow rate, and easy to color. The special properties of ACRYLITE PLUS ZD23 polymer are high impact/break resistance and strength, medium melt flow rate, high heat resistance, and FDA food contact uses. Application: Used for injection molded parts. Information Provided by Evonik CYRO

Order this product through the following link:

http://www.lookpolymers.com/polymer_Evonik-CYRO-ACRYLITE-PLUS-ZD23-Impact-Light-Diffusing-Acrylic-Polymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Bulk Density	0.710 g/cc	0.0257 lb/in ³	ASTM D1895
Water Absorption at Saturation	0.30 %	0.30 %	ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	ASTM D955
Melt Flow	3.1 g/10 min @Load 3.80 kg, Temperature 230 °C	3.1 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	44	44	ASTM D785
Tensile Strength at Break	44.1 MPa	6400 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Elongation at Yield	4.0 %	4.0 %	ASTM D638
Tensile Modulus	1.72 GPa	250 ksi	ASTM D638
Flexural Strength	68.9 MPa	10000 psi	ASTM D790
Flexural Modulus	1.79 GPa	260 ksi	ASTM D790
Izod Impact, Notched	0.267 J/cm @Temperature 0.000 °C	0.500 ft-lb/in @Temperature 32.0 °F	1/4" bar; ASTM D256
	0.534 J/cm @Temperature 23.0 °C	1.00 ft-lb/in @Temperature 73.4 °F	1/4" bar; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 0.000 - 156 $^{\circ}\text{C}$	@Temperature 32.0 - 312 $^{\circ}\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	85.0 $^{\circ}\text{C}$	185 $^{\circ}\text{F}$	Annealed; ASTM D648
	@Thickness 6.35 mm	@Thickness 0.250 in	
Vicat Softening Point	108 $^{\circ}\text{C}$	226 $^{\circ}\text{F}$	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	$\leq 96\%$	$\leq 96\%$	ASTM D1003
Yellow Index	$\leq 5.5\%$	$\leq 5.5\%$	ASTM D1925
Transmission, Visible	85 %	85 %	ASTM D1003

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	232 - 249 $^{\circ}\text{C}$	450 - 480 $^{\circ}\text{F}$	
Melt Temperature	232 - 249 $^{\circ}\text{C}$	450 - 480 $^{\circ}\text{F}$	
Mold Temperature	43.3 - 82.2 $^{\circ}\text{C}$	110 - 180 $^{\circ}\text{F}$	
Drying Temperature	82.2 $^{\circ}\text{C}$	180 $^{\circ}\text{F}$	
Dry Time	3 - 4 hour	3 - 4 hour	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China