

Arkema Group Oroglas® MI-2T Acrylic (discontinued **)

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, General Purpose, Molded

Material Notes:

OROGLAS MI-2T is an injection molding acrylic grade that offers excellent thermal resistance with slight improvement in impact performance. Key features improved deformation and toughness : up to 2 times more impact resistant than standard acrylics. excellent thermal resistance: HDT A (1.82 MPa) = 98°C high flow and easy processing UV stability clarity, brilliance and excellent optical properties Typical applications OROGLAS MI-2T is mainly used for automotive and lighting applications when heat resistance and additional deformation are required. ISO data provided by the manufacturer, Arkema. Arkema, formed in 2004, was formerly Atofina Chemicals and before that Elf Atochem.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Oroglas-MI-2T-Acrylic-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	
Water Absorption	2.0 %	2.0 %	
Moisture Absorption at Equilibrium	0.30 %	0.30 %	Humidity Absorption
Melt Flow	2.8 g/10 min @Load 3.80 kg, Temperature 230 °C	2.8 g/10 min @Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	78.0 MPa	11300 psi	50 mm/min
Elongation at Break	10 %	10 %	Nominal Strain; 50 mm/min
Elongation at Yield	4.0 %	4.0 %	50 mm/min
Tensile Modulus	3.00 GPa	435 ksi	1 mm/min
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	
Charpy Impact, Notched	0.250 J/cm ²	1.19 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	2600 MPa	377000 psi	
Tensile Creep Modulus, 1000 hours	1700 MPa	247000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C @Temperature 20.0 °C	38.9 µin/in-°F @Temperature 68.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (0.07 psi)	102 °C	216 °F	
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C	208 °F	
Vicat Softening Point	104 °C	219 °F	50°C/hr; 50N
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	80 %	80 %	Mfr. reports 'Transparent' but doesn't quantify.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
Dielectric Constant	3.2	3.2	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.7	3.7	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	
Dissipation Factor	0.040	0.040	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.050	0.050	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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