

## Arkema Group Oroglas® MI-7T Acrylic (discontinued \*\*)

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

### Material Notes:

OROGLAS MI-7T is a medium impact grade combining excellent thermal resistance with good impact performance. Key features : impact resistance: up to 7 times more impact-resistant than standard acrylic high temperature resistance: HDT A / 1.82 MPa = 93°C excellent optical properties UV stability brilliance and scratch resistance low edge color easy processing Typical applications : OROGLAS MI-7T can be injection or extruded for several types of applications in the following fields: automotive, appliances, business machines building, etc...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-7T-Acrylic-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Arkema-Group-Oroglas-MI-7T-Acrylic-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in <sup>3</sup>	
Water Absorption	2.0 %	2.0 %	
Moisture Absorption at Equilibrium	0.33 %	0.33 %	Humidity Absorption
Melt Flow	1.7 g/10 min @Load 3.80 kg, Temperature 230 °C	1.7 g/10 min @Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	65.0 MPa	9430 psi	50 mm/min
Elongation at Break	30 %	30 %	Nominal Strain; 50 mm/min
Elongation at Yield	4.5 %	4.5 %	50 mm/min
Tensile Modulus	2.40 GPa	348 ksi	1 mm/min
Charpy Impact Unnotched	4.50 J/cm <sup>2</sup>	21.4 ft-lb/in <sup>2</sup>	
Charpy Impact, Notched	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	
Tensile Creep Modulus, 1 hour	1900 MPa	276000 psi	
Tensile Creep Modulus, 1000 hours	1200 MPa	174000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	98.0 °C	208 °F	

Thermal Properties	Metric	English	Comments
Thermal Distortion Temperature at 1.8 MPa (264 psi)	93.0 °C	199 °F	
Vicat Softening Point	97.0 °C	207 °F	50°C/hr; 50N
Flammability, UL94	HB @Thickness 1.60 mm	HB @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 @Frequency 1e+6 Hz	3.2 @Frequency 1e+6 Hz	
	3.8 @Frequency 100 Hz	3.8 @Frequency 100 Hz	
Dielectric Strength	17.7 kV/mm	450 kV/in	
Dissipation Factor	0.040 @Frequency 1e+6 Hz	0.040 @Frequency 1e+6 Hz	
	0.050 @Frequency 100 Hz	0.050 @Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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