

Arkema Group Oroglas® VS-UVT Acrylic, Injection Molding Grade (discontinued **)

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

Material Notes:

The outstanding flow of OROGLAS VS-UVT makes it as the material of choice for injection molding of part with thin wall thickness. The ultraviolet transmitting (uvt) formulation is developed to meet the specific requirement of medical diagnostic components. OROGLAS VS-UVT is FDA approved. 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-VS-UVT-Acrylic-Injection-Molding-Grade-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	
Water Absorption	1.7 %	1.7 %	
Moisture Absorption at Equilibrium	0.30 %	0.30 %	Humidity Absorption
Melt Flow	22 g/10 min @Load 3.80 kg, Temperature 230 °C	22 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	5.0 %	5.0 %	Nominal Strain; 50 mm/min
Tensile Modulus	2.90 GPa	421 ksi	1 mm/min
Charpy Impact Unnotched	1.90 J/cm ²	9.04 ft-lb/in ²	
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	2400 MPa	348000 psi	
Tensile Creep Modulus, 1000 hours	1400 MPa	203000 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	
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	
Deflection Temperature at 1.8 MPa	76.0 °C	169 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	80.0 °C	176 °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	
	3.7 @Frequency 100 Hz	3.7 @Frequency 100 Hz	
Dielectric Strength	19.7 kV/mm	500 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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