

Arkema Group Oroglas® V 044 Acrylic, Extrusion Grade (discontinued **)

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Extruded

Material Notes:

OROGLAS V 044 is an extrusion grade offering good compromise between physical properties and thermal resistance. OROGLAS V 044 is recommended for extrusion of profiles, tubes and sheets. 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-V-044-Acrylic-Extrusion-Grade-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	
Water Absorption	1.9 %	1.9 %	
Moisture Absorption at Equilibrium	0.30 %	0.30 %	Humidity Absorption
Melt Flow	1.5 g/10 min @Load 3.80 kg, Temperature 230 °C	1.5 g/10 min @Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	86.0 MPa	12500 psi	50 mm/min
Elongation at Break	6.0 %	6.0 %	Nominal Strain; 50 mm/min
Tensile Modulus	3.30 GPa	479 ksi	1 mm/min
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	2700 MPa	392000 psi	
Tensile Creep Modulus, 1000 hours	1800 MPa	261000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.0 µm/m-°C @Temperature 20.0 °C	36.1 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	96.0 °C	205 °F	
Deflection Temperature at 1.8 MPa (264 psi)	93.0 °C	199 °F	
Vicat Softening Point	96.0 °C	205 °F	50°C/hr; 50N

Thermal Properties	Metric	English	Comments
Flammability, UL94	@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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