

Arkema Group Oroglas® V 045 Acrylic, Extrusion Grade (discontinued **)

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

Material Notes:

OROGLAS V 045 is a lubricated extrusion grade offering good combination of physical and optical properties. OROGLAS V 045 provides easy processing behavior. OROGLAS V 045 is recommended for extrusion of tubes, sheets and profiles. 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-045-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	
Dielectric Strength	3.7	3.7	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.040	0.040	
Comparative Tracking Index	0.050	0.050	
	@Frequency 100 Hz	@Frequency 100 Hz	
	600 V	600 V	

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