

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

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

Material Notes:

OROGLAS V 045 I is an extrusion that exhibits the following properties : 50% tougher than standard acrylics excellent optical properties (comparable to that of standard acrylics) superior surface quality The properties enhancement translates into the following benefits : improved handling durability (in plant, in transit and in service) improved yields and reduced reject rates. OROGLAS V 045 I is recommended for extrusion applications in replacement of dry blend approach (impact acrylics + standard acrylics)OROGLAS V 045 I is suitable for most of the extrusion applications: 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-045-I-Acrylic-Extrusion-Grade-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	1.8 g/10 min @Load 3.80 kg, Temperature 230 °C	1.8 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
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	38.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	94.0 °C	201 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	92.0 °C	198 °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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