

Arkema Group Oroglas® SG 7 Acrylic, Gamma Radiation Resistant (discontinued **)

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Gamma Radiation Resistant, Molded

Material Notes:

OROGLAS SG 7 is special Gamma - radiation - resistant formulation designed for use in medical devises. OROGLAS SG 10 maintains exceptional clarity after 5 megarads of Gamma radiation with no adverse effect on physical properties. In addition, OROGLAS SG 7 has all the features of oroglas medium impact grades including increased flow, clarity and chemical resistance. OROGLAS SG 7 meets FDA and pharmacopeia XXI class VI toxicity requirements. 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-SG-7-Acrylic-Gamma-Radiation-Resistant-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	
Water Absorption	2.0 %	2.0 %	
Moisture Absorption at Equilibrium	0.33 %	0.33 %	Humidity Absorption
Melt Flow	10.7 g/10 min @Load 3.80 kg, Temperature 230 °C	10.7 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	25 %	25 %	Nominal Strain; 50 mm/min
Elongation at Yield	4.5 %	4.5 %	50 mm/min
Tensile Modulus	2.30 GPa	334 ksi	1 mm/min
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	1800 MPa	261000 psi	
Tensile Creep Modulus, 1000 hours	1300 MPa	189000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C @Temperature 20.0 °C	44.4 µin/in-°F @Temperature 68.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	90.0 °C	194 °F	
Vicat Softening Point	88.0 °C	190 °F	50°C/hr; 50N
Flammability, UL94	HB	HB	
	@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	
	3.8	3.8	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	17.7 kV/mm	450 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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