

Arkema Group Orogas® DRT Acrylic, Impact Grade (discontinued **)

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Impact Modified, Molded

Material Notes:

For extrusion and injection molding applications. OROGLAS DRT combines good thermal resistance with an excellent impact resistance. Key features : impact resistance: up to 10 times more impact-resistant than standard acrylic high temperature resistance: HDT A / 1.82 MPa = 88°C clarity and low haze UV stability easy processing Typical applications: indoor and outdoor lighting applications appliances and house ware items automotive signs OROGLAS DRT is also used as top layer, alone or in coextrusion for sanitary, garden furniture, pools, window profiles and automotive fields. 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-Orogas-DRT-Acrylic-Impact-Grade-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	
Water Absorption	2.0 %	2.0 %	
Moisture Absorption at Equilibrium	0.36 %	0.36 %	Humidity Absorption
Melt Flow	0.80 g/10 min @Load 3.80 kg, Temperature 230 °C	0.80 g/10 min @Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	50 mm/min
Elongation at Break	40 %	40 %	Nominal Strain; 50 mm/min
Elongation at Yield	5.0 %	5.0 %	50 mm/min
Tensile Modulus	1.70 GPa	247 ksi	1 mm/min
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	1400 MPa	203000 psi	
Tensile Creep Modulus, 1000 hours	1000 MPa	145000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C @Temperature 20.0 °C	55.6 µin/in-°F @Temperature 68.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (264 psi)	93.0 °C	199 °F	
Vicat Softening Point	93.0 °C	199 °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	
	3.9	3.9	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	15.0 kV/mm	381 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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