

Arkema Group Oroglas® HFI-10 Acrylic, Impact Grade (discontinued **)

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

Material Notes:

OROGLAS HFI-10 is an impact grade that in addition to its superior impact resistance provides an improvement in flow which contribute to improve molding behavior and reduce cycle time. Key features : impact resistance: up to 10 times more impact-resistant than standard acrylic easy processing: flow significantly improved which contribute to reduce cycle time by 20 %. (MFI, 230°C/3.8 kg) = 3 gr / 10 min (MVI, 230°C/3.8 kg) = 2.8 ml / 10 min excellent optical properties with low edge color UV stability Typical applications : OROGLAS HFI-10 can be injection molded or extruded in any type of machine Typical applications are in the fields of: building, lighting, appliances, information technology, and business machines. OROGLAS HFI-10 is recommended when toughness and increased flow are required. 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-HFI-10-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	2.8 g/10 min @Load 3.80 kg, Temperature 230 °C	2.8 g/10 min @Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	42.0 MPa	6090 psi	50 mm/min
Elongation at Break	30 %	30 %	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	6.00 J/cm ²	28.6 ft-lb/in ²	
Charpy Impact, Notched	0.600 J/cm ²	2.86 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 (66 psi)	85.0 °C	183 °F	
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °F	
Vicat Softening Point	84.0 °C	183 °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	
	3.9 @Frequency 100 Hz	3.9 @Frequency 100 Hz	
Dielectric Strength	15.0 kV/mm	381 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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China