

Arkema Group Solarkote® H300 Acrylic

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, UV Stabilized, Molded

Material Notes:

Superior UV protection, Adhesion to HIPS, ASTM Classification PMMA 0233V3 Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Solarkote-H300-Acrylic.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Water Absorption	0.40 %	0.40 %	weight gain after 24 hr. immersion; ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0080 cm/cm	0.0030 - 0.0080 in/in	ASTM D955
Melt Flow	5.0 g/10 min @Load 3.80 kg, Temperature 230 °C	5.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	20	20	ASTM D785
Tensile Strength, Ultimate	32.4 MPa	4700 psi	ASTM D638
Tensile Modulus	1.79 GPa	260 ksi	ASTM D638
Flexural Strength	<= 55.2 MPa	<= 8000 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm	0.900 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.216 W/m-K	1.50 BTU-in/hr-ft²-°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	73.9 °C	165 °F	annealed; ASTM D648
Vicat Softening Point	76.7 °C	170 °F	50°C/hr; 50N; ASTM D1525
	91.1 °C	196 °F	50°C/hr; 10N; ASTM D1525

Optical Properties	Metric	English	Comments

Optical Properties	^{1.49} Metric	^{1.49} English	Comments
	@Temperature 22.8 °C	@Temperature 73.0 °F	sub>; ASTM D542
Haze	<= 2.0 % @Thickness 3.17 mm	<= 2.0 % @Thickness 0.125 in	ASTM D1003
Transmission, Visible	89 % @Thickness 3.17 mm	89 % @Thickness 0.125 in	ASTM D1003

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