

Arkema Group Solarkote® P-600 Acrylic

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, General Purpose, Molded

Material Notes:

PVC Capstock, clear, high gloss
Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Solarkote-P-600-Acrylic.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Water Absorption	0.40 %	0.40 %	weight gain after 24 hr. immersion; ASTM D570
Melt Flow	1.3 g/10 min @Load 3.80 kg, Temperature 230 °C	1.3 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	69	69	ASTM D785
Tensile Strength, Ultimate	22.1 MPa	3200 psi	ASTM D638
Elongation at Break	79 %	79 %	ASTM D638
Tensile Modulus	1.37 GPa	198 ksi	ASTM D638
Flexural Strength	<= 33.1 MPa	<= 4800 psi	ASTM D790
Flexural Modulus	1.17 GPa	170 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm	1.60 ft-lb/in	ASTM D256
Taber Abrasion, mg/1000 Cycles	16.5	16.5	500 g load; ASTM D1044

Thermal Properties	Metric	English	Comments
CTE, linear	117 µm/m-°C	65.0 µin/in-°F	ASTM E831
	@Temperature -17.8 °C	@Temperature 0.000 °F	
	124 µm/m-°C	69.0 µin/in-°F	ASTM E831
	@Temperature -6.67 °C	@Temperature 20.0 °F	
137 µm/m-°C	76.0 µin/in-°F	ASTM E831	
@Temperature 23.9 °C	@Temperature 75.0 °F		
	149 µm/m-°C	83.0 µin/in-°F	ASTM E831

Thermal Properties	@Temperature 37.8 °C Metric	@Temperature 100 °F English	Comments
Thermal Conductivity	0.216 W/m-K	1.50 BTU-in/hr-ft ² -°F	ASTM C177
Deflection Temperature at 1.8 MPa (264 psi)	51.7 °C	125 °F	annealed; ASTM D648
Vicat Softening Point	58.3 °C	137 °F	50°C/hr; 50N; ASTM D1525
	68.9 °C	156 °F	50°C/hr; 10N; ASTM D1525

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	N _D ; ASTM D542
	@Temperature 22.8 °C	@Temperature 73.0 °F	

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