

Arkema Group Solarkote® PB Acrylic

Category : Polymer , Thermoplastic , Acrylic (PMMA)

Material Notes:

For PVC/acrylic alloys Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Solarkote-PB-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
Melt Flow	2.0 g/10 min @Load 3.80 kg, Temperature 230 °C	2.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	38	38	ASTM D785
Tensile Strength, Ultimate	37.9 MPa	5500 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Tensile Modulus	1.81 GPa	263 ksi	ASTM D638
Flexural Strength	<= 55.2 MPa	<= 8000 psi	ASTM D790
Flexural Modulus	1.72 GPa	250 ksi	ASTM D790
Izod Impact, Notched	0.587 J/cm	1.10 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	99.0 µm/m-°C	55.0 µin/in-°F	ASTM E831
	68.4 µm/m-°C	38.0 µin/in-°F	ASTM E831
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	82.8 µm/m-°C	46.0 µin/in-°F	ASTM E831
	@Temperature -17.8 °C	@Temperature 0.000 °F	
	113 µm/m-°C	63.0 µin/in-°F	ASTM E831
	@Temperature 37.8 °C	@Temperature 100 °F	
Thermal Conductivity	0.216 W/m-K	1.50 BTU-in/hr-ft ² -°F	ASTM C177

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)			ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	77.8 °C	172 °F	annealed; ASTM D648
Vicat Softening Point	82.8 °C	181 °F	50°C/hr; 50N; ASTM D1525
	93.3 °C	200 °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	
Haze	<= 2.0 %	<= 2.0 %	Diffusion; ASTM D1003
	@Thickness 3.17 mm	@Thickness 0.125 in	
Transmission, Visible	90 %	90 %	ASTM D1003
	@Thickness 3.17 mm	@Thickness 0.125 in	

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