

Capstock

Solarkote® PB acrylic capstock

PROPERTIES	VALUE	UNITS	TEST METHOD
Physical			
Melt Flow Rate (200°C / 11.6 kg)	0.9	g / 10 min	ASTM D1238
Specific Gravity	1.16		ASTM D792
Water Absorption (24 hr. immersion)	0.4	% weight gain	ASTM D570
Mechanical			
Tensile Strength @ Maximum	5,100	PSI	ASTM D638
Tensile Elongation @ Break	35	%	"
Tensile Modulus	200,000	PSI	"
Flexural Strength, maximum (Yield)	8,300	PSI	ASTM D790
Flexural Modulus	210,000	PSI	ASTM D790
Notched Izod Impact(73°F/23°C)	1.1	ft-lb/in notch	ASTM D256
Rockwell Hardness	20	M	ASTM D785
Thermal			
HDT (0.455 MPa; annealed) ¹	185	°F	ASTM D648
HDT (1.82 MPa; annealed) ¹	157	°F	ASTM D648
Coefficient of Linear Thermal Expansion			ASTM E831
-40°F	3.8	in/in/°F x 10 ⁻⁵	"
-20°F	4.0	in/in/°F x 10 ⁻⁵	"
0°F	4.6	in/in/°F x 10 ⁻⁵	"
20°F	4.9	in/in/°F x 10 ⁻⁵	"
40°F	5.2	in/in/°F x 10 ⁻⁵	"
60°F	5.5	in/in/°F x 10 ⁻⁵	"
80°F	5.8	in/in/°F x 10 ⁻⁵	"
100°F	6.3	in/in/°F x 10 ⁻⁵	"
Vicat Softening Point (50°C/hr; 10N)	211	°F	ASTM D1525
Vicat Softening Point (50°C/hr; 50N)	189	°F	ASTM D1525
Thermal Conductivity	1.5	BTU/hr*ft ² *F/in	ASTM C177
Optical			
Refractive Index (ND @ 73°F)	1.49		ASTM D542
Luminous Transmittance (0.125"/3.2 mm.)	90	%	ASTM D1003
Haze (0.125 in./3.2 mm.)	<2	%	ASTM D1003

Data given are average values and should not be used for specification purposes.

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