

Capstock

Solarkote® P-611 acrylic capstock

PROPERTIES	VALUE	UNITS	TEST METHOD
Physical			
Melt Flow Rate (230°C / 3.8 kg)	0.6	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	3,200	PSI	ASTM D638
Tensile Elongation @ Break	80	%	"
Tensile Modulus	160,000	PSI	"
Flexural Strength, maximum (Yield)	4,200	PSI	ASTM D790
Flexural Modulus	150,000	PSI	ASTM D790
Notched Izod Impact(73°F/23°C)	1.3	ft-lb/in notch	ASTM D256
Rockwell Hardness	55	R	ASTM D785
Thermal			
HDT (1.82 MPa; annealed) ¹	136	°F	ASTM D648
Coefficient of Linear Thermal Expansion			ASTM E831
0°F	6.5	in/in/°F x 10 ⁻⁵	"
20°F	6.9	in/in/°F x 10 ⁻⁵	"
75°F	7.6	in/in/°F x 10 ⁻⁵	"
100°F	8.3	in/in/°F x 10 ⁻⁵	"
Taber Abrasion Resistance, 500g load, #cycles/unit			ASTM D1044
100	0.0010	lost weight	"
500	0.0105	lost weight	"
1000	0.0165	lost weight	"
2000	0.0355	lost weight	"
Vicat Softening Point (50°C/hr; 10N)	158	°F	ASTM D1525
Vicat Softening Point (50°C/hr; 50N)	140	°F	ASTM D1525
Thermal Conductivity	1.5	BTU/hr*ft ² *F/in	ASTM C177
Optical			
Refractive Index (ND @ 73°F)	opaque		ASTM D542

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

1. Annealing Cycle: 4hrs @ 80°C

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ARKEMA GROUP

Altuglas International
2000 Market Street
Philadelphia, PA 19103