

ACRYTUFF IM100 EXTRUDED ACRYLIC

GENERAL	TEST	VALUE	UNIT
Density	ISO1183	1.15 (0.0415)	g/cm ³ (lb/in ³)
Water Absorption	ISO62	0.3	%
MECHANICAL			
Tensile Strength	ISO527-2	40 (5801)	MPa (psi)
Elongation at Break	ISO527-2	25	%
Tensile Modulus	ISO527-2	1800 (261058)	MPa (psi)
Flexural Strength	ISO178	65 (9427)	MPa (psi)
Flexural Modulus	ISO178	1800 (261058)	MPa (psi)
Charpy Impact Strength, Notched	ISO179-1	7 (3.3)	kJ/m ² (ft-lb/in ²)
Izod Impact Strength, Notched	ISO180/1A	7 (3.3)	kJ/m ² (ft-lb/in ²)
THERMAL			
Vicat Softening Temperature, B50, Annealed	ISO306	95 (203)	°C (°F)
Heat Distortion Temperature, 1.8MPa	ISO75	76 (168)	°C (°F)
Linear Thermal Expansion	DIN53752	11	/°K x 10 ⁻⁵
Continuous Service Temperature	-	65 (149)	°C (°F)
Maximum Short Term Temperature	-	75 (167)	°C (°F)
Degradation Temperature	-	> 280 (> 536)	°C (°F)
OPTICAL			
Light Transmission (3mm / 0.118")	DIN5036-3	90	%
Refractive Index	DIN5036-3	1.49	-