

ACRYTUFF GP EXTRUDED ACRYLIC

GENERAL	TEST	VALUE	UNIT
Density	ISO1183	1.19 (0.0429)	g/cm ³ (lb/in ³)
Water Absorption	ISO62	0.3	%
MECHANICAL			
Tensile Strength	ISO527-2	70 (10152)	MPa (psi)
Elongation at Break	ISO527-2	4	%
Tensile Modulus	ISO527-2	3000 (435097)	MPa (psi)
Flexural Strength	ISO178	110 (15956)	MPa (psi)
Flexural Modulus	ISO178	3000 (435097)	MPa (psi)
Charpy Impact Strength, Notched	ISO179-1	1.8 (0.856)	kJ/m ² (ft-lb/in ²)
Izod Impact Strength, Notched	ISO180/1A	1.5 (0.713)	kJ/m ² (ft-lb/in ²)
THERMAL			
Vicat Softening Temperature, B50, Annealed	ISO306	102 (215)	°C (°F)
Heat Distortion Temperature, 1.8MPa	ISO75	92 (197)	°C (°F)
Linear Thermal Expansion	DIN53752	7	/°K x 10 ⁻⁵
Continuous Service Temperature	-	70 (158)	°C (°F)
Maximum Short Term Temperature	-	80 (176)	°C (°F)
Degradation Temperature	-	> 280 (> 536)	°C (°F)
OPTICAL			
Light Transmission (3mm / 0.118")	DIN5036-3	92	%
Refractive Index	DIN5036-3	1.49	-