



ACRYPLEX IM50 IMPACT MODIFIED EXTRUDED ACRYLIC

GENERAL			
Density	ISO1183	1.17 (0.0422)	g/cm ³ (lb/in ³)
Water Absorption	ISO62	0.3	%
MECHANICAL			
Tensile Strength	ISO527-2	55 (7976)	Mpa (psi)
Elongation at Break	ISO527-2	15	%
Tensile Modulus	ISO527-2	2300 (333575)	Mpa (psi)
Flexural Strength	ISO178	85 (12327)	Mpa (psi)
Flexural Modulus	ISO178	2300 (333575)	Mpa (psi)
Charpy Impact Strength, Notched	ISO179-1	3 (1.427)	kJ/m ² (ft-lb/in ²)
Izod Impact Strength, Notched	ISO180/1A	4 (1.902)	kJ/m ² (ft-lb/in ²)
THERMAL			
Vicat Softening Temperature, B50, Annealed	ISO306	98 (208)	°C (°F)
Heat Distortion Temperature, 1.8MPa	ISO75	85 (185)	°C (°F)
Linear Thermal Expansion	DIN53752	8.5	/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) Clear	DIN5036-3	91	%
Light Transmission (3mm) Opal	DIN5036-3	26	%
Refractive Index - Uncoloured	DIN5036-3	1.49	-

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