

MATERIAL SPEC

PHYSICAL PROPERTIES	METRIC	ENGLISH	COMMENTS
Density	1.20g/cc	0.0434 lb/in ³	ISO 1183
Water Absorption	0.20%	0.20%	In water, 23 ^o C, 24h; ISO 62
Linear Mold Shrinkage	0.0050-0.0070 cm/cm @ Thickness 4.00 mm	0.0050-0.0070 in/in @ Thickness 0.157 in	
Linear Mold Shrinkage, Transverse	0.0050-0.0070 cm/cm @ Thickness 4.00 mm	0.0050-0.0070 in/in @ Thickness 0.157 in	
Melt Flow	8.4g/ 10 min @ Load 1.20kg, Temperature 300 ^o C	8.4g/ 10 min @ Load 2.65 lbTemperature 572 ^o F	ISO 1133

MECHANICAL PROPERTIES	METRIC	ENGLISH	COMMENTS
Tensile Strength, Yield	62.0 MPa	8990 psi	50mm/min; ISO 527
Elongation at Break	> = 50%	> = 50%	50mm/min; ISO 527
Elongation at Yield	6.00%	6.00%	50mm/min; ISO 527
Tensile Modulus	2.40 GPa	348 ksi	1mm/min; ISO 527
Flexural Strength	93.0 MPa	13500 psi	2mm/min; ISO 178
Flexural Modulus	2.35 GPa	341 ksi	2mm/min; ISO 178
Charpy Impact Unnotched	N/B	N/B	ISO 179
Charpy Impact Notched	7.60J/cm ²	36.2ft-lb/in ²	ISO 179

OPTICAL PROPERTIES	METRIC	ENGLISH	COMMENTS
Refractive Index	1.585	1.585	ASTM D542
Transmission, Visible	88% @ Thickness 3.00 mm	88% @ Thickness 0.118 in	ASTM D1003

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