

Physical Properties of MX004

		Property items	Test Condition	Unit	Test Method	MX004
Basic Properties		Density		kg/m ³ lb/in ³	ASTM-D1505	833 0.030
		MFR	P=5kg, 260°C	g/10min	ASTM-D1238	25
		Melting Point	peak temperature	°C °F	JIS-K7121 (DSC method)	228 442
		Water Absorption		%	ASTM-D570	<0.01
Thermal Properties		Vicat Softening Point		°C °F	ASTM-D1525	164 327
		Heat Distortion Temperature	0.43MPa	°C °F	ASTM-D648	100 212
		Expansion Coefficient		cm/cm°C cm/cm°F	ASTM-E831	1.17 × 10 ⁻⁴ 2.11 × 10 ⁻⁴
Mechanical Properties	23°C 73°F	Yield Stress		MPa PSI	ASTM-D638	25 3,625
		Tensile Strength		MPa PSI	ASTM-D638	20 2,900
		Elongation at Break		%	ASTM-D638	30
		Tensile Modulus		MPa PSI	ASTM-D638	1,300 188,500
	23°C 73°F	Flexural Modulus		MPa PSI	ASTM-D790	1,050 152,250
		Flexural Strength		MPa PSI	ASTM-D790	32 4,640
	23°C 73°F	Izod Impact Properties	with notch	J/m ft-lbs/in	ASTM-D256	27 0.5
			without notch	kJ/m ² ft-lbs/in ²	ASTM-D256	23 11
		Rockwell Hardness	R scale	—	ASTM-D785	66
Optical Properties		Haze		%	ASTM-D1003	1
		Transmittance		%	ASTM-D1003	94
		Refractive Index		—	ASTM-D542	1
Electrical Properties		Volume Resistivity		Ω · cm	ASTM-D257	>10 ¹⁶
		Dielectric Breakdown Voltage		KV/mm V/mil	ASTM-D149	65 1,650
		Dielectric Constant		—	ASTM-D150	2.1

Note: Figures shown here are representative values but not specified values.