

## Physical Properties of MX002

		Property items	Test Condition	Unit	Test Method	MX002
Basic Properties		Density		kg/m <sup>3</sup> lb/in <sup>3</sup>	ASTM-D1505	834 0.030
		MFR	P=5kg, 260°C	g/10min	ASTM-D1238	21
		Melting Point	peak temperature	°C °F	JIS-K7121 (DSC method)	224 435
		Water Absorption		%	ASTM-D570	<0.01
Thermal Properties		Vicat Softening Point		°C °F	ASTM-D1525	149 300
		Heat Distortion Temperature	0.43MPa	°C °F	ASTM-D648	93 199
		Expansion Coefficient		cm/cm°C cm/cm°F	ASTM-E831	1.17 × 10 <sup>-4</sup> 2.11 × 10 <sup>-4</sup>
Mechanical Properties	23°C 73°F	Yield Stress		MPa PSI	ASTM-D638	21 3,045
		Tensile Strength		MPa PSI	ASTM-D638	10 1,450
		Elongation at Break		%	ASTM-D638	60
		Tensile Modulus		MPa PSI	ASTM-D638	900 130,500
	23°C 73°F	Flexural Modulus		MPa PSI	ASTM-D790	660 95,700
		Flexural Strength		MPa PSI	ASTM-D790	27 3,915
	23°C 73°F	Izod Impact Properties	with notch	J/m ft-lbs/in	ASTM-D256	32 0.6
			without notch	kJ/m <sup>2</sup> ft-lbs/in <sup>2</sup>	ASTM-D256	129 61
		Rockwell Hardness	R scale	—	ASTM-D785	40
Optical Properties		Haze		%	ASTM-D1003	1
		Transmittance		%	ASTM-D1003	93
		Refractive Index		—	ASTM-D542	1
Electrical Properties		Volume Resistivity		Ω · cm	ASTM-D257	>10 <sup>16</sup>
		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.