

TPX® MX002

Polymethylpentene Copolymer
Mitsui Chemicals America, Inc.

Message:

TPX® MX002 is a Polymethylpentene Copolymer (PMP Copolymer) material. It is available in North America for blow molding, extrusion, fiber (spinning) extrusion, film extrusion, or injection molding.

Important attributes of TPX® MX002 are:

- Chemical Resistant
- Heat Resistant
- Non-Toxic

Typical applications include:

- Coating Applications
- Consumer Goods
- Film

General Information	
Features	Good Chemical Resistance
	Good Thermal Stability
	Non-Toxic
Uses	Coating Applications
	Cosmetics
	Film
Appearance	Clear/Transparent
Forms	Granules
Processing Method	Blow Molding
	Extrusion
	Fiber (Spinning) Extrusion
	Film Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	0.833	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	21	g/10 min	ASTM D1238
Spiral Flow ¹	56.0	cm	Internal Method
Molding Shrinkage ²			Internal Method
Flow	1.5	%	
Across Flow	1.1	%	
Water Absorption (24 hr)	< 0.010	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	42		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus (23°C)	890	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	21.0	MPa	
Break, 23°C	10.0	MPa	
Tensile Elongation (Break, 23°C)	60	%	ASTM D638
Flexural Modulus (23°C)	660	MPa	ASTM D790
Flexural Strength (23°C)	27.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	28	J/m	ASTM D256
Unnotched Izod Impact Strength (23°C)	130	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	93.0	°C	ASTM D648
Vicat Softening Temperature	153	°C	ASTM D1525
Melting Temperature	224	°C	DSC
CLTE - Flow	1.2E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	65	kV/mm	ASTM D149
Dielectric Constant	2.10		ASTM D150
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.460		ASTM D542
Transmittance	93.0	%	ASTM D1003
Haze	2.1	%	ASTM D1003
NOTE			
1.	Mold Temperature: 73°C, Melt Temperature: 310 to 320°C		
2.	temperature range: 260 to 280°C		

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