

TPX® MX004

Polymethylpentene Copolymer
Mitsui Chemicals America, Inc.

Message:

TPX® MX004 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® MX004 are:
Chemical Resistant
Heat Resistant
Non-Toxic
Typical applications include:
Film
Food Contact Applications
Medical/Healthcare

General Information	
Features	Good Chemical Resistance Good Thermal Stability Non-Toxic
Uses	Film Medical/Healthcare Applications
Agency Ratings	FDA Food Contact, Unspecified Rating JHOSPA Unspecified Rating
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)	25	g/10 min	ASTM D1238
Spiral Flow ¹	53.0	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)	75		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1300	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	25.0	MPa	
Break, 23°C	20.0	MPa	
Tensile Elongation (Break, 23°C)	30	%	ASTM D638
Flexural Modulus (23°C)	1050	MPa	ASTM D790
Flexural Strength (23°C)	32.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	24	J/m	ASTM D256
Unnotched Izod Impact Strength (23°C)	40	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	100	°C	ASTM D648
Vicat Softening Temperature	165	°C	ASTM D1525
Melting Temperature	228	°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	94.0	%	ASTM D1003
Haze	0.70	%	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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