

TPX® MX002O

Polymethylpentene Copolymer

Mitsui Chemicals, Inc.

Message:

TPX®MX002O is a polymethylpentene copolymer (PMP copolymer) material. This product is available in Europe or the Asia-Pacific region. The processing methods are: blow molding, extrusion or injection molding. TPX®The main characteristics of MX002O are: hardness.
TPX®The typical application field of MX002O is: food contact application

General Information			
Features	Semi Rigid		
Agency Ratings	FDA not rated		
Forms	Particle		
Processing Method	Blow molding		
	Extrusion		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Density	0.835	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)	21	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	1.6	%	ASTM D955
Transverse flow	1.6	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	62		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	785	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	20.0	MPa	ASTM D638
23°C	20.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	60	%	ASTM D638
Flexural Modulus (23°C)	641	MPa	ASTM D790
Flexural Strength (23°C)	25.0	MPa	ASTM D790

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	75.0	°C	ASTM D648
Vicat Softening Temperature	151	°C	ASTM D1525
Melting Temperature	222	°C	
CLTE - Flow	3.8E-4	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	63	kV/mm	ASTM D149

Dielectric Constant	2.12		ASTM D150
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.463		ASTM D542
Clarity	93.0		ASTM D1746
Haze	0.90	%	ASTM D1003

Additional Information

Unnotched Izod Impact, ASTM D256, 23°C: 98 kJ/m²

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