

TPX® MX0020

Polymethylpentene Copolymer

Mitsui Chemicals America, Inc.

Message:

TPX® MX0020 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® MX0020 are:

Chemical Resistant

Heat Resistant

Non-Toxic

Typical applications include:

Coating Applications

Consumer Goods

Film

Food Contact Applications

General Information			
Features	Good Chemical Resistance		
	Good Thermal Stability		
	Non-Toxic		
Uses	Coating Applications		
	Cosmetics		
	Film		
Agency Ratings	FDA 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)	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)	880	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	1.2	%	ASTM D1003
NOTE			

1. Mold Temperature: 73°C,
Melt Temperature: 310 to 320°C
2. temperature range: 260 to 280°C

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT