

TPX™ DX560M

Polymethylpentene Copolymer

Mitsui Chemicals America, Inc.

Message:

TPX™DX560M is a polymethylpentene copolymer (PMP copolymer) material. This product is available in North America. The processing methods are: blow molding, pipeline extrusion molding, extrusion, profile extrusion molding or injection molding.

General Information			
Appearance	Opacity		
Forms	Particle		
Processing Method	Blow molding		
	Pipeline extrusion molding		
	Extrusion		
	Profile extrusion molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.856	g/cm ³	Internal method
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	33	g/10 min	Internal method
Water Absorption (Saturation)	< 0.010	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	< 50		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C, Injection Molded)	280	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield, 23°C, injection molding	8.00	MPa	ASTM D638
Fracture, 23°C, injection molding	9.00	MPa	ASTM D638
Tensile Elongation ³ (Break, 23°C, Injection Molded)	100	%	ASTM D638
Flexural Modulus ⁴ (mm, injection molding, 51.0mm span)	190	MPa	ASTM D790
Flexural Strength ⁵ (mm, injection molding, 51.0mm span)	6.00	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Injection Molded)	500	J/m	ASTM D256
Unnotched Izod Impact (23°C, Injection Molded)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁶ (0.45 MPa, Unannealed, 6.35 mm)	59.0	°C	ASTM D648
Vicat Softening Temperature	89.0	°C	ASTM D1525 ⁷
Peak Crystallization Temperature (DSC)	221	°C	ASTM D3418

CLTE - Flow (-10 to 160°C)	3.5E-4	cm/cm/°C	Internal method
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity ⁸ (2.00 mm)	> 1.0E+15	ohms·cm	ASTM D257
Dielectric Strength ⁹ (2.00 mm)	31	kV/mm	ASTM D149
Dielectric Constant ¹⁰ (2.00 mm, 1 MHz)	2.15		ASTM D150
Injection	Nominal Value	Unit	
Rear Temperature	270	°C	
Middle Temperature	280	°C	
Front Temperature	300	°C	
Mold Temperature	20 - 60	°C	
Injection Pressure	30.0 - 40.0	MPa	
Holding Pressure	30.0	MPa	
Injection instructions			
Zone 4 Temperature: 300°C			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	280	°C	
Cylinder Zone 2 Temp.	290	°C	
Cylinder Zone 3 Temp.	290	°C	
Cylinder Zone 4 Temp.	290	°C	
Adapter Temperature	290	°C	
Die Temperature	290	°C	
NOTE			
1.	Type 4, 50mm/min		
2.	Type 4, 50mm/min		
3.	Type 4, 50mm/min		
4.	1.3 mm/min		
5.	1.3 mm/min		
6.	120°C/hr		
7.	速率 A (50°C/h), 压 力1 (10N)		
8.	Injection Molded		
9.	Injection Molded		
10.	Injection Molded		

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