

TPX® DX845

Polymethylpentene Copolymer
Mitsui Chemicals America, Inc.

Message:

TPX® DX845 is a Polymethylpentene Copolymer (PMP Copolymer) material. It is available in North America for blow molding, fiber (spinning) extrusion, film extrusion, or injection molding.
Typical application of TPX® DX845: Food Contact Applications

General Information			
Agency Ratings	EU 2002/72/EC		
	FDA Food Contact, Unspecified Rating		
	JHOSPA Unspecified Rating		
Appearance	Clear/Transparent		
Forms	Granules		
Processing Method	Blow Molding		
	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)	9.0	g/10 min	ASTM D1238
Spiral Flow ¹	50.0	cm	Internal Method
Molding Shrinkage ²			Internal Method
Flow	1.5	%	
Across Flow	1.2	%	
Water Absorption (24 hr)	< 0.010	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	87		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1900	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	30.0	MPa	
Break, 23°C	25.0	MPa	
Tensile Elongation (Break, 23°C)	12	%	ASTM D638
Flexural Modulus (23°C)	1600	MPa	ASTM D790
Flexural Strength (23°C)	47.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	20	J/m	ASTM D256
Unnotched Izod Impact Strength (23°C)	10	kJ/m ²	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	127	°C	ASTM D648
Vicat Softening Temperature	174	°C	ASTM D1525
Melting Temperature	233	°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	66	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	1.1	%	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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