

TPX® DX231

Polymethylpentene Copolymer
Mitsui Chemicals America, Inc.

Message:

TPX® DX231 is a Polymethylpentene Copolymer (PMP Copolymer) material. It is available in North America for extrusion coating or fiber (spinning) extrusion.

General Information			
Appearance	Clear/Transparent		
Forms	Granules		
Processing Method	Extrusion Coating		
	Fiber (Spinning) Extrusion		

Physical	Nominal Value	Unit	Test Method
Density	0.833	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	100	g/10 min	ASTM D1238
Water Absorption (24 hr)	< 0.010	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	91		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1860	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	29.0	MPa	
Break, 23°C	25.0	MPa	
Tensile Elongation (Break, 23°C)	14	%	ASTM D638
Flexural Modulus (23°C)	1500	MPa	ASTM D790
Flexural Strength (23°C)	43.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	18	J/m	ASTM D256
Unnotched Izod Impact Strength (23°C)	8.0	kJ/m ²	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	126	°C	ASTM D648
Vicat Softening Temperature	180	°C	ASTM D1525
Melting Temperature	232	°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
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Refractive Index	1.460		ASTM D542
Transmittance	93.0	%	ASTM D1003
Haze	2.1	%	ASTM D1003

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