TPX® DX820

Polymethylpentene Copolymer

Mitsui Chemicals America, Inc.

Message:

TPX® DX820 is a Polymethylpentene Copolymer (PMP Copolymer) material. It is available in North America for extrusion coating or fiber (spinning) extrusion.
Important attributes of TPX® DX820 are:
Chemical Resistant
Heat Resistant
Non-Toxic
Typical applications include:
Food Contact Applications
Containers

General Information	
Features	Good Chemical Resistance Good Thermal Stability Non-Toxic
Uses	Food Containers
Agency Ratings	EU 2002/72/EC FDA Unspecified Rating JHOSPA Unspecified Rating
Appearance	Clear/Transparent
Forms	Granules
Processing Method	Extrusion Coating Fiber (Spinning) Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.833	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	180	g/10 min	ASTM D1238
Water Absorption (24 hr)	< 0.010	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	92		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2050	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	32.0	MPa	
Break, 23°C	25.0	MPa	
Tensile Elongation (Break, 23°C)	10	%	ASTM D638
Flexural Modulus (23°C)	1770	MPa	ASTM D790
Flexural Strength (23°C)	49.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	19	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)	132	°C	ASTM D648
Vicat Softening Temperature	185	°C	ASTM D1525
Melting Temperature	236	°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	92.0	%	ASTM D1003
Haze	2.1	%	ASTM D1003

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