TPX® DX820

Polymethylpentene Copolymer

Mitsui Chemicals America, Inc.

Message:

TPX®DX820 is a polymethylpentene copolymer (PMP copolymer) material. This product is available in Europe or Asia Pacific region. The processing method is: extrusion coating. TPX®The main characteristics of DX820 are: hardness.
TPX®The typical application areas of DX820 are: food contact applications

General Information			
Features	Rigidity, high		
Agency Ratings	EU Unspecified Rating FDA not rated JHOSPA not rated		
Forms	Particle		
Processing Method	Extrusion coating		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.833	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)	180	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	90		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	1760	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	26.0	MPa	ASTM D638
23°C	20.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	6.0	%	ASTM D638
Flexural Modulus (23°C)	1570	MPa	ASTM D790
Flexural Strength (23°C)	46.9	MPa	ASTM D790
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	90.0	°C	ASTM D648
Vicat Softening Temperature	178	°C	ASTM D1525
Melting Temperature	238	°C	
CLTE - Flow	3.8E-4	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength	63	kV/mm	ASTM D149
Dielectric Constant	2.12		ASTM D150
Optical	**Nominal Value**	**Unit**	**Test Method**
Clarity	93.0		ASTM D1746

Haze	2.6	%	ASTM D1003

Additional Information

Unnotched Izod Impact, ASTM D256, 23°C: 8 kJ/m²

Recommended distributors for this material

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