

TPX® RT18XB

Polymethylpentene Copolymer

Mitsui Chemicals America, Inc.

Message:

TPX®RT18XB is a polymethylpentene copolymer (PMP copolymer) material. This product is available in Europe or Asia Pacific region. The processing method is injection molding. TPX®The main characteristics of RT18XB are: hardness.

TPX®The typical application areas of RT18XB are: food contact applications

General Information			
Features	Rigidity, high		
Agency Ratings	EU Unspecified Rating FDA not rated JHOSPA not rated		
Appearance	Transparent-Light Blue		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.833	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)	26	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow	2.1	%	ASTM D955
Transverse flow	1.7	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	88		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1770	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)	32	%	ASTM D638
Flexural Modulus (23°C)	1570	MPa	ASTM D790
Flexural Strength (23°C)	48.0	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	176	°C	ASTM D1525
Melting Temperature	237	°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
Refractive Index	1.463		ASTM D542
Clarity	94.0		ASTM D1746
Haze	1.1	%	ASTM D1003

Additional Information

Unnotched Izod Impact, ASTM D256, 23°C: 11 kJ/m²

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