

# TPX® RT31XB

Polymethylpentene Copolymer

Mitsui Chemicals, Inc.

## Message:

TPX®RT31XB 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 features of RT31XB are:

Hard

odorless/tasteless channel

TPX®The typical application areas of RT31XB are: food contact applications

General Information			
Features	Rigidity, high		
	The smell is low to none		
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 <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR)	21	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)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1870	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)	1770	MPa	ASTM D790
Flexural Strength (23°C)	51.0	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	177	°C	ASTM D1525

Melting Temperature	235	°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	93.0		ASTM D1746
Haze	0.90	%	ASTM D1003
Additional Information			

Unnotched Izod Impact, ASTM D256, 23°C: 10 kJ/m<sup>2</sup>

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

