

TPX® RT31

Polymethylpentene Copolymer

Mitsui Chemicals, Inc.

Message:

TPX®RT31 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 RT31 are:

Hard

odorless/tasteless channel

TPX®The typical application areas of RT31 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		
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)	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)	1860	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/m²

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