Iupiace® TX403

Polyphenylene Ether + PS

Mitsubishi Engineering-Plastics Corp

Message:

Iupiace® TX403 is a Polyphenylene Ether + PS (PPE+PS) material filled with filler. It is available in Asia Pacific, Europe, or North America for injection molding.
Important attributes of Iupiace® TX403 are:
Flame Rated
Warp Resistant

General Information			
UL YellowCard	E41179-474125		
Filler / Reinforcement	Filler		
Features	Low Warpage		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.09	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (280°C/5.0 kg)	16.0	cm³/10min	ISO 1133
Molding Shrinkage			
Across Flow : 3.20 mm	0.50 to 0.70	%	
Flow : 3.20 mm	0.50 to 0.70	%	
Water Absorption (Saturation, 23°C)	0.060	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2900	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	51.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	2.6	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	24	%	ISO 527-2
Flexural Modulus (23°C)	2800	MPa	ISO 178
Flexural Stress (23°C)	87.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	26	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	90.0	°C	ISO 75-2/A
CLTE			ISO 11359-2
Flow	6.0E-5	cm/cm/°C	
Transverse	6.0E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	2.0E+15	ohms	IEC 60093

Volume Resistivity	3.0E+16	ohms·cm	IEC 60093
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.750 mm)	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	230 to 260	°C	
Middle Temperature	250 to 280	°C	
Front Temperature	250 to 280	°C	
Nozzle Temperature	240 to 260	°C	
Mold Temperature	50.0 to 90.0	°C	
Injection Pressure	20.0 to 150	MPa	
Injection Rate	Moderate		
Screw Speed	60 to 150	rpm	

Recommended distributors for this material

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