Mitsubishi Engineering-Plastics Corporation

Iupiace

Modified PPE Resin

Properties	Test Method	Terms	Units	Filler Reinforced **TX403** Low Warpage	**TX903B** Anticreep High impact	**TH620** Low Warpage
				-	-	-
				-	-	-
Physical properties						
Density	ISO 1183	-	g/cm^3	1.09	1.09	1.20
Water absorption	-	23degC, Underwater	%	0.06	0.06	0.06
Rheological properties						
Melt Volume-flow Rate	ISO 1133	Temperature Load	cm^3/10min degC kg	16 280 5	2.5 300 2.16	12.0 300 2.16
Moulding shrinkage (3.2mmt)	-	MD TD	%	0.5 - 0.7 0.5 - 0.7	- -	0.3 - 0.4 0.3 - 0.4
Mechanical properties						
Tensile modulus Yield stress	ISO 527-1 , 527-2	23 degC	MPa	2900 51	2700 60	5200 -
Yield strain Nominal strain at break			%	2.6 24	- 40	- 12
Stress at 50% strain Stress at break			MPa	- -	- -	- 50
Strain at break			%	-	-	-
Flexural strength Flexural modulus	ISO 178	23 degC	MPa	87 2800	100 2700	100 5100
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m^2	NB	NB	-
Charpy notched impact strength		23 degC	kJ/m^2	26	32	4
Thermal properties						
Temperature of deflection under load	ISO 75-1 , 75-2	1.80MPa 0.45MPa	degC	90 100	145 -	115 -
Coefficient of Linear thermal expansion	ISO 11359-2	MD TD	1/degC	6.0E-05 6.0E-05	- -	- -
Flammability	UL94	0.75mmt	-	HB	-	HB
		1.5mmt	-	-	-	-
		2.0mmt	-	-	-	-
Electrical properties						
Relative permittivity	IEC 60250	100Hz 1MHz	- -	- -	- -	- -
Dissipation factor	IEC 60250	100Hz 1MHz	- -	- -	- -	- -
Volume resistivity	IEC 60093	-	ohm-m	3.E+14	-	-
Surface resistivity	IEC 60093	-	ohm	2.E+15	-	-
Electric strength	IEC 60243-1	1mmt 2mmt 3mmt	MV/m	- - -	- - -	- - -
Comparative tracking index	IEC 60112	-	-	-	-	-

The listed properties are portrayed as general information only and are not product specifications.