Reny

Polyamide MXD6 Resin

Properties	Test Method	Terms	Units	High Impact 1313 Glassfiber Reinforced G 40% dry(50%RH)
Physical properties				
Density	ISO 1183	-	g/cm^3	1.47
Water absorption		23degC, 50%RH 23degC, Underwater		1.20 0.21
Rheological properties				
Melt Mass-flow Rate Melt Volume-flow Rate	ISO 1133	 Temperature Load	g/10min cm^3/10min degC kg	2.3 2.7 280 3.80
Moulding shrinkage	-	-	%	0.52
Mechanical properties				
Tensile modulus Stress at break Strain at break	ISO 527-1 , 527-2		MPa MPa %	12000 (11000) 162 (136) 2.0 (2.4)
Flexural strength Flexural modulus	ISO 178	-	MPa	258 (219) 11600 (10900)
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m^2	66 (55)
Charpy notched impact strength		23 degC	kJ/m^2	12.2 (12.7)
Thermal properties				
Melting temperature	ISO 11357-3		degC	-
Glass transition temperature	ISO 11357-2		degC	-
Temperature of deflection under load	ISO 75-1 , 75-2	1.80MPa 0.45MPa	degC	217 (207) 235 (231)
Vicat softening temperature	ISO 306	-	degC	-
Coefficient of Linear thermal expansion	ISO 11359-2	MD TD	1/degC	2.E-5 6.E-5
Flammability	UL94	-	-	-
Flammability	UL94	1.6mmt	-	HB
Electrical properties				
Relative permittivity	IEC 60250	100Hz 1MHz	- -	(5) (4)
Dissipation factor	IEC 60250	100Hz 1MHz	- -	(0.020) (0.015)
Volume resistivity	IEC 60093	-	ohm-m	1E+14 (1E+13)
Surface resistivity	IEC 60093	-	ohm	1E+15 (3E+14)
Electric strength	IEC 60243-1	1mmt 2mmt 3mmt	MV/m	27 (28) 24 (22) -
Comparative tracking index	IEC 60112	-	-	600< (600<)
	UL746A	-	-	-