

Reny

Polyamide MXD6 Resin

Properties	Test Method	Terms	Units	High Rigidity
				N252
				Glassfiber Mineral Reinforced
				G
				25% dry(50%RH)
Physical properties				
Density	ISO 1183	-	g/cm ³	1.72
Water absorption		23degC, 50%RH		1.10
		23degC, Underwater		0.24
Rheological properties				
Melt Mass-flow Rate	ISO 1133	Temperature Load	g/10min	2.6
Melt Volume-flow Rate			cm ³ /10min	1.9
			degC	275
			kg	2.16
Moulding shrinkage	-	-	%	0.45
Mechanical properties				
Tensile modulus	ISO 527-1 , 527-2		MPa	25700 (22200)
Stress at break			MPa	174 (138)
Strain at break			%	11 (1.4)
Flexural strength	ISO 178	-	MPa	289 (219)
Flexural modulus				21900 (17000)
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m ²	31 (33)
Charpy notched impact strength		23 degC		5.9 (6.6)
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	degC	227 (220)
		0.45MPa		236 (231)
Vicat softening temperature	ISO 306	-	degC	-
Coefficient of Linear thermal expansion	ISO 11359-2	MD	1/degC	2.E-5
		TD		4.E-5
Flammability	UL94	-	-	-
Flammability	UL94	1.6mmt	-	HB
Electrical properties				
Relative permittivity	IEC 60250	100Hz	-	5 (5)
		1MHz	-	5 (5)
Dissipation factor	IEC 60250	100Hz	-	0.011 (0.011)
		1MHz	-	0.008 (0.018)
Volume resistivity	IEC 60093	-	ohm-m	6E+13 (7E+12)
Surface resistivity	IEC 60093	-	ohm	4E+15 (2E+14)
Electric strength	IEC 60243-1	1mmt	MV/m	21 (20)
		2mmt		-
		3mmt		-
Comparative tracking index	IEC 60112	-	-	325 (250)
	UL746A	-	-	-

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

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