

**Reny**

Polyamide MXD6 Resin

Properties	Test Method	Terms	Units	E.conductive & Flame Retard.	
				4501	4511
				Glassfiber Reinforced	Glassfiber Reinforced
				G	G
				30%	40%
dry(50%RH)	dry(50%RH)				
<b>Physical properties</b>					
Density	ISO 1183	-	g/cm <sup>3</sup>	1.66	1.77
Water absorption		23degC, 50%RH		0.80	0.70
		23degC, Underwater		0.06	0.06
<b>Rheological properties</b>					
Melt Mass-flow Rate	ISO 1133	Temperature	g/10min	10.1	1.8
Melt Volume-flow Rate			cm <sup>3</sup> /10min	7.5	1.0
			degC	275	280
			kg	2.10	3.80
Moulding shrinkage	-	-	%	0.30	0.35
<b>Mechanical properties</b>					
Tensile modulus	ISO 527-1 , 527-2		MPa	20400 (16200)	20900 (20600)
Stress at break			MPa	107 (113)	130 (125)
Strain at break			%	0.7 (0.9)	0.6 (0.8)
Flexural strength	ISO 178	-	MPa	190 (184)	215 (208)
Flexural modulus				19100 (15500)	22200 (22000)
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m <sup>2</sup>	14 (15)	12 (12)
Charpy notched impact strength		23 degC	kJ/m <sup>2</sup>	7.5 (6.6)	6.9 (8.9)
<b>Thermal properties</b>					
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	225 (216)	223 (218)
		0.45MPa		236 (232)	234 (232)
Vicat softening temperature	ISO 306	-	degC	-	-
Coefficient of Linear thermal expansion	ISO 11359-2	MD	1/degC	-	8.E-6
		TD		-	4.E-5
Flammability	UL94	-	-	-	-
Flammability	UL94	1.6mmt	-	V-0	V-0
<b>Electrical properties</b>					
Relative permittivity	IEC 60250	100Hz	-	-	-
		1MHz	-	-	-
Dissipation factor	IEC 60250	100Hz	-	-	-
		1MHz	-	-	-
Volume resistivity	IEC 60093	-	ohm-m	-	3E+00 (7E+06)
Surface resistivity	IEC 60093	-	ohm	-	5E+03 (4E+04)
Electric strength	IEC 60243-1	1mmt	MV/m	-	-
		2mmt		-	-
		3mmt		-	-
Comparative tracking index	IEC 60112	-	-	-	-
	UL746A	-	-	-	-

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

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