

**Reny**

Polyamide MXD6 Resin

Properties	Test Method	Terms	Units	UV Resistance
				<b>1021UCS</b>
				Glassfiber Reinforced
				G
				50% dry(50%RH)
<b>Physical properties</b>				
Density	ISO 1183	-	g/cm <sup>3</sup>	1.61
Water absorption		23degC, 50%RH		1.3
		23degC, Underwater		0.47
<b>Rheological properties</b>				
Melt Mass-flow Rate	ISO 1133	Temperature	g/10min	13.1
Melt Volume-flow Rate			cm <sup>3</sup> /10min	11.1
			degC	275
		Load	kg	2.16
Moulding shrinkage	-	-	%	0.40
<b>Mechanical properties</b>				
Tensile modulus	ISO 527-1 , 527-2		MPa	17800 (14400)
Stress at break			MPa	252 (184)
Strain at break			%	2.5 (3.4)
Flexural strength	ISO 178	-	MPa	392 (305)
Flexural modulus				18300 (13800)
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m <sup>2</sup>	87 (101)
Charpy notched impact strength		23 degC		14.1 (16.4)
<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	217 (210)
		0.45MPa		227 (221)
Vicat softening temperature	ISO 306	-	degC	-
Coefficient of Linear thermal expansion	ISO 11359-2	MD	1/degC	-
		TD		-
Flammability	UL94	-	-	eaual to HB
Flammability	UL94	1.6mmt	-	-
<b>Electrical properties</b>				
Relative permittivity	IEC 60250	100Hz	-	-
		1MHz		-
Dissipation factor	IEC 60250	100Hz	-	-
		1MHz		-
Volume resistivity	IEC 60093	-	ohm-m	-
Surface resistivity	IEC 60093	-	ohm	-
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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