

NOVADURAN[®]

Polybutylene Terephthalate Resin

Properties	Test Method	Terms	Units	Unreinforced UL-HB type	
				5010R5	
				Medium Viscosity	
Percentage of filler and reinforcing material	-	-	-	-	
	-	-	%	0	
Physical properties					
Density	ISO 1183	-	g/cm ³	1.31	
Water absorption	-	23degC, Underwater	%	0.10	
Rheological properties					
Melt Mass-flow Rate	ISO 1133	Temperature Load	g/10min	27	
Melt Volume-flow Rate			cm ³ /10min	25	
			degC	250	
			kg	2.16	
Moulding shrinkage(1mmt)	-	MD	%	1.5	
		TD		1.4	
Moulding shrinkage(3mmt)	-	MD	%	2.2	
		TD		2.0	
Mechanical properties					
Tensile modulus	ISO 527-1 , 527-2	-	MPa	2400	
Yield stress				54	
Yield strain			%	4.4	
Nominal strain at break				120	
Stress at 50% strain			MPa	-	
Stress at break			%	-	
Strain at break				-	
Flexural strength	ISO 178	-	MPa	85	
Flexural modulus				2400	
Charpy impact strength	ISO 179-1 , 179-2	23 degC	kJ/m ²	NB	
Charpy notched impact strength		23 degC	kJ/m ²	5	
Thermal properties					
Melting temperature	ISO 11357-3		degC	224	
Temperature of deflection under load	ISO 75-1 , 75-2	1.80MPa	degC	54	
		0.45MPa		136	
Coefficient of Linear thermal expansion	ISO 11359-2	MD	1/degC	11E-05	
		TD		11E-05	
Flammability	UL94	0.8mmt	-	HB	
Electrical properties					
Relative permittivity	IEC 60250	1MHz	-	3.2	
Dissipation factor	IEC 60250	1MHz	-	0.020	
Volume resistivity	IEC 60093	-	ohm-m	1.E+14	
Surface resistivity	IEC 60093	-	ohm	1.E+15	
Electric strength	IEC 60243-1	1mmt	MV/m	22	
		2mmt		17	
Comparative tracking index	UL746A	-	-	PLC 0	

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

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