

**NOVADURAN<sup>®</sup>**

Polybutylene Terephthalate Resin

Properties	Test Method	Terms	Units	Unreinforced UL-HB type	
				5026	
				Medium Viscosity	
Percentage of filler and reinforcing material	-	-	-	-	
	-	-	%	0	
<b>Physical properties</b>					
Density	ISO 1183	-	g/cm <sup>3</sup>	1.31	
Water absorption	-	23degC, Underwater	%	0.10	
<b>Rheological properties</b>					
Melt Mass-flow Rate	ISO 1133	Temperature Load	g/10min	9	
Melt Volume-flow Rate			cm <sup>3</sup> /10min	8	
			degC	250	
			kg	2.16	
Moulding shrinkage(1mmt)	-	MD	%	1.5	
		TD		1.4	
Moulding shrinkage(3mmt)	-	MD	%	2.2	
		TD		2.0	
<b>Mechanical properties</b>					
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 <sup>2</sup>	NB	
Charpy notched impact strength		23 degC		6	
<b>Thermal properties</b>					
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	-	-	
<b>Electrical properties</b>					
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	UL94	-	-	-	

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

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