

**Tecodur® PB50 NL**

PBT, unfilled, natural, high viscosity

Property (dry as molded)	Condition	Value	Unit	Standard
<b>General Properties</b>				
Abbreviation	-	PBT	-	ISO 1043
Density	-	1,31	g/cm <sup>3</sup>	ISO 1183
Melt Flow Rate	2.16kg, 275 °C	-	g/10'	ISO 1133
Molding Shrinkage	Parallel / Normal	1,6 / 1,6	%	Eurotec
Moisture Content	-	<0,08	%	ISO 15512
Moisture Absorption	50% RH, 23 °C	0,2	%	ISO 62
<b>Mechanical Properties</b>				
Stress at Break	+23°C	-	MPa	ISO 527
Strain at Break	+23°C	-	%	ISO 527
Tensile Modulus	+23°C	2500	MPa	ISO 527
Yield Strength	+23°C	55	MPa	ISO 527
Izod Impact, notched	+23 °C	6	kJ/m <sup>2</sup>	ISO 180/1A
Izod Impact, notched	-30 °C	5	kJ/m <sup>2</sup>	ISO 180/1A
Izod Impact, un-notched	+23 °C	NB	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, un-notched	-30 °C	NB	kJ/m <sup>2</sup>	ISO 180/1U
<b>Thermal Properties</b>				
Melting Temperature	10 K/min	225	°C	ISO 11357
Heat Deformation Temperature	0.45 MPa	-	°C	ISO 75
Heat Deformation Temperature	1.80 MPa	60	°C	ISO 75
Vicat Softening Temperature	50N	-	°C	ISO 306
<b>Electrical Properties &amp; Flammability</b>				
Volume Resistivity	-	1E+16	Ohm.cm	IEC 60093
Surface Resistivity	-	1E+14	Ohm	IEC 60093
Comparative Tracking Index	solution A	-	V	IEC 60112
Glow Wire Flammability Index (GWFI)	2 mm plaque	-	°C	IEC 60695
Glow Wire Ignitability Temperature (GWIT)	2 mm plaque	-	°C	IEC 60695
Flame Rating	0.75 mm	HB	-	UL94
Flame Rating	1.6 mm	HB	-	UL94
<b>Processing Parameters</b>				
Drying*		120 / 2 - 4	°C / hr	
Feed Throat Temperature		50 - 70	°C	
Processing Temperature		240 - 260	°C	
Mold Temperature		60 - 100	°C	
Hold Pressure		40 - 80	MPa	
Back Pressure		Low	-	
Injection Speed		Medium - Fast	-	

All mentioned information in this technical data sheet present current knowledge and experience of Eurotec. The data may not be valid when this product is used in combination with other materials such as pigments or additives. Please note that the data are given dry as molded values related to the mentioned material only. Naturally, these data do not guarantee certain values since may vary on customers processing conditions, so they are provided for reference purposes only and should not be used alone to create specification limits and design basis. It is strongly recommended for customers to test the product under their own processing conditions and test facilities to determine the suitability for the required application and use.