


TECHNICAL DATA SHEET [TDS]
PBT Dinadur
REFERENCE: PBT1S01 HI-0022
PRODUCT DESCRIPTION

PBT Dinadur, High impact, Natural

PROPERTIES	UNITS	METHOD	VALUE D.A.M
Physical			
Relative density	g/cm ³	ISO 1183	1,22
Humidity	%	ISO 15512-B	<0,15
Mould shrinkage, parallel	%	ISO 294-4	1,7 - 2,2
Mould shrinkage, normal	%	ISO 294-4	1,7 - 2,2
Mechanical			
Tensile modulus (1 mm/min)	MPa	ISO 527	1550
Tensile Stress at yield (50mm/min)	Mpa	ISO 527	36
Tensile Stress at break (50mm/min)	Mpa	ISO 527	25
Tensile Strain at yield (50mm/min)	%	ISO 527	6,1
Strain at break (50 mm/min)	%	ISO 527	>50
Flexural modulus (2 mm/min)	MPa	ISO 178	1600
Flexural strength (2 mm/min)	MPa	ISO 178	51
Charpy notched impact strength (23°C)	kJ/m ²	ISO 179/1eA	90
Charpy notched impact strength (-30°C)	kJ/m ²	ISO 179/1eA	7
Charpy notched impact strength (-40°C)	kJ/m ²	ISO 179/1eA	7
Charpy unnotched impact strength (23°C)	kJ/m ²	ISO 179/1eU	N.B.
Charpy unnotched impact strength (-30°C)	kJ/m ²	ISO 179/1eU	N.B.
Charpy unnotched impact strength (-40°C)	kJ/m ²	ISO 179/1eU	N.B.

UPDATE DATE

jun.-2018

The data submitted here are, to the best of Grupo Repol's knowledge, representative of the range of properties for the listed products, but should not be used to establish process limits or used as the direct basis of design. Colorants or other additives may alter these properties. The data are given for natural grade unless otherwise specified.





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PROPERTIES	UNITS	METHOD	VALUE D.A.M
Rheological			
Melt flow index M.F.I. (275°C, 5 kg)	g/10min	ISO 1133	70
Thermal			
Heat deflection temperature HDT (0.45 MPa)	°C	ISO 75-B	100
VICAT softening temperature	°C	ISO 306-B50	>125
Melting point	°C	ISO 11357	225
Heat deflection temperature HDT (1.80 MPa)	°C	ISO 75-A	47
Flammability classification (0.8 mm)	V0-V1-V2-HB	UL 94	HB
Flammability classification (1.6 mm)	V0-V1-V2-HB	UL 94	HB
Flammability classification (3 mm)	V0-V1-V2-HB	UL 94	HB
Burning rate	mm/min	ISO 3795	<100
Electrical			
Surface resistivity	Ohm	IEC 60093	1,0E+15
Processing			
Melt temperature range	°C	-	260 - 285
Recommended mould temperature	°C	-	70 - 100
Drying temperature	°C	-	110
Drying time	h	-	4-6

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