Product Data - T PETG

Typical Properties

CONDITIONS	TEST METHOD	UNIT	VALUE
GENERAL PROPERTIES			
Density	ISO 1183	gr/cm^3	1,27
Water Absorbtion (23 °C, 24h)	ISO 62	%	0,2
MECHANICAL PROPERTIES			
Tensile Stress at Break	ISO 527	MPa	*26*
Elongation at break	ISO 527	%	*40*
Tensile Modulus	ISO 527	MPa	*2200*
Flexural Modulus	ISO 178	MPa	*2100*
Flexural Strength	ISO 178	MPa	*69*
Charpy Impact Strength, notched 23 °C	ISO 179	kj/m^2	*10*
Charpy Impact Strength, notched 0 °C	ISO 179	kj/m^2	*4,2*
Charpy Impact Strength, unnotched 23 °C	ISO 179	kj/m^2	*No break*
Charpy Impact Strength, unnotched 0 °C	ISO 179	kj/m^2	*No break*
Rockwell Hardness R scale	ASTM D 785		*115*
THERMAL PROPERTIES			
Vicat Temparature for 1 kg	ISO 306	°C	*83*
Vicat Temparature for 5 kg	ISO 306	°C	*78*
Defletion temperature for 0,45 Mpa	ISO 75	°C	*72*
Defletion temperature for 1,8 Mpa	ISO 75	°C	*68*
Coefficient of linear thermal expansion	ASTM D 696	mm/mC	*0,07*
ELECTRICAL PROPERTIES			
Dielectrical Constant for 1 kHz	ASTM D 150		*2,6*
Dielectrical Constant for 1MHz	ASTM D 150		*2,4*
Dielectrical Strength	ASTM D 149	KV/mm	*16,1*
OPTICAL PROPERTIES			
Light Transmission (2 mm)	ASTM D 1003	%	*88*
Haze (2 mm)	ASTM D 1003	%	*<2*
Refractive Index	ASTM D 542		*1,57*
FLAMMABILITY			
Fire Resistance	UL 94		*3 mm> 94V-2* *3mm< 94 HB*

These data are presented only as typical properties of the base resins which, to our best knowledge, are true and accurate. However, since conditions of use are beyond our control, all recommendations or suggestions are presented without guaranty or responsibility on our part. We disclaim all liability in connection with the use of information contained herein or otherwise. All risks of such use are assumed by the user. Furthermore, nothing contained herein shall be construed as an inducement or recommendation to use any process or to manufacture or use any product in conflict with existing or future patents.

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