



PRODOTTO TIVAR 88

TIPOLOGIA MATERIE PLASTICHE

N° SCHEMA 1102

Colour(s)	blue		
Material properties	Standard	Unit	
Average molecular weight (average molecular mass)		(g/mol)	approx. $9 \cdot 10^5$
Density	ISO 1183	(kg/m ³)	≥ 934
Water absorption at 23° C until saturation	ISO 62	(%)	< 0,01
Mechanical properties	Standard	Unit	
Tensile stress at yield (tensile strength)	ISO 527	(MPa)	≥ 17
Elongation at break	ISO 527	(%)	≥ 250
Tensile modulus	ISO 527	(MPa)	790
Impact strength (Charpy) at 23° C	ISO 179	(kJ/m ²)	no break
Notched impact strength (Charpy) at 23° C	ISO 11542-2	(kJ/m ²)	≥ 120
Ball indentation hardness	ISO 2039-1	(N/mm ²)	30 - 35
Shore-Hardness D, 15 s value	ISO 868	(-)	60 - 65
Coefficient of friction	-	(-)	approx. 0,15
Abrasion (Sand-Slurry)	-	(%)	80
Thermal properties	Standard	Unit	
Melting point DSC, 10 K/min	ISO 3146	(°C)	135 - 138
Vicat softening point	ISO 306	(°C)	80
Coefficient of linear thermal expansion between 23 and 80° C	ISO 11359	(K ⁻¹)	approx. $2 \cdot 10^{-4}$
Thermal conductivity	ISO 52612	(W/[m * K])	approx. 0,4
Use temperature (max.)	-	(°C)	80
Use temperature (briefly)	-	(°C)	90
Use temperature (min.)	-	(°C)	-200
Electrical properties	Standard	Unit	
Relative permittivity at 100 Hz	IEC 60250	(-)	2,1
Dissipation factor at 100 Hz	IEC 60250	(-)	approx. $3,9 \cdot 10^{-4}$
Volume resistivity	IEC 60093	(Ohm * m)	> 10 ¹²
Surface resistivity	IEC 60093	(Ohm)	> 10 ¹²
Dielectric strength	IEC 60243	(kV/mm)	45
Physiological properties	Standard	Unit	
Food conformances according to EU Directive 2002/72/EC			no
FDA Regulation 21CFR177.1520			no
FDA Regulation 21CFR178.2010			no
FDA Regulation 21CFR178.3297			no

Notice to users:

The technical data shown in this data sheet refers to a 40 mm thick sheet. Due to the production process the data may vary depending on the material thickness.

The information contained in this technical data sheet can not be construed as a promise or guarantee of specific properties of our products. Any determination of the suitability of a particular material and part design for any use contemplated by the user is the sole responsibility of the user. The information contained in this technical data sheet is based on present knowledge and may be subject to change without further notice.