

► Main features

Amorphous, translucent and amber-coloured thermoplastic material. It is rigid and tenacious, has a high mechanical resistance and is resistant to thermal ageing. In addition, it has a good level of creep resistance and excellent dimensional stability. It often replaces polycarbonate when greater resistance to temperature and chemicals is required.

► Applications

Connectors
Coil bodies
Parts for
electromedical and electronic
equipment
Gears
Flanges

► Application sectors

Food
Chemical
Medical and Pharmaceutical
Electric and of
Semiconductors
Mechanic

Cooming soon

► FDA Compatibility YES

► Available colours



PHYSICAL PROPERTIES	REGULATIONS	UM	PSU
PHYSICAL PROPERTIES			
Density	DIN53479	g/cm ³	1.24
Water absorption (50% at 23° C)	**DIN53495	%	0.23
Maximum temp. for use in the air for short duration	-	°C	180
Maximum temperature of use in continuous air	-	°C	160
Minimum temperature of use in continuous air	-	°C	-20
MECHANICAL PROPERTIES			
Yield stress/tensile strength (σ_s)	ISO 527	N/mm ²	89
Elongation at break (ϵ_s)	ISO 527	%	15
Breaking load (σ_r)	DIN53455	N/mm ²	-
Elongation at break (ϵ_r)	ISO 527	%	15
Impact resistance	*DIN53453	kJ/m ²	NR
Impact resistance, notched test	*DIN53453	kJ/m ²	7
Rockwell hardness	DIN53465	Scala M	M69
Compression test, load 1% deform. nominal	*DIN53454 ⁽³⁾	N/mm ²	90
Elasticity module	*DIN53457 ⁽⁵⁾	N/mm ²	2600
THERMIC PROPERTIES			
Melting temperature	-	°C	190
VICAT softening temperature	DIN53460	°C	-
Deformation temperature under bending load	DIN53461	°C	174
Coefficient of linear thermal expansion (α)	DIN53752	K ⁻¹ X10 ⁻⁴	0.56
Thermal conductivity at 23°	DIN52612	W/(Kxm)	0.26
ELECTRICAL PROPERTIES			
Volume resistivity	**DIN53482	Ω/cm	5x10 ¹⁵
Surface resistivity	**DIN53482	Ω	3x10 ¹⁴
Dielectric constant at 10 ³ Hz (on thickness of 1 mm.)	**DIN53483	-	3.03
Dielectric dissipation factor ($\tan \delta$) a 10 ³ Hz	**DIN53483	-	0.003
Dielectric strength (on thickness of 1 mm.)	**DIN53481	kV/mm	30
Electrical leakage resistivity	112/030TI	-	CTI150
OTHER PROPERTIES			
Possibility of gluing	-	-	Yes
Absence of physiological risks	FDA	-	Yes
Dry friction coefficient on steel	DIN53375	-	0.4
Flammability	UL94	-	V-0
UV stability	-	-	No

* : MEASUREMENTS ON TEST TUBES IN ANHYDROUS STATE
** : MEASUREMENTS ON EQUILIBRIUM TUBES
WITH U.R. 50% AT A TEMPERATURE OF 23° C

(3): ON CYLINDERS Ø 12X30 MM
(5): TRACTION SPEED 1 MM / MIN

(4): TRACTION SPEED 5 MM/MIN
(6): TRACTION SPEED 20 MM/MIN