

POLYTEC PP NATURAL

POLYTEC PP NATURAL is a homopolymer polypropylene recommended for the chemical industry and industrial cutting. Its properties give it the best use for machinery for the footwear industry and also it can be welded. Its crystal structure provides a good balance between stiffness, resistance to abrasion and chemical resistance.

PROPERTIES	UNITS	TEST METHODS	VALUES
Properties			
Density	g/cm ³	DIN 53 479	0.92
Water absorption	%	DIN EN ISO 62	<0.1
Molecular weight	Mio/m.		0.92
Mechanical properties			
Tensile strenght	N/mm ²	DIN 53 455	33
Breaking strenght	%	DIN 53 455	>700
Modulus of elasticity in tension	N/mm ²	-	1300
Bending stress	N/mm ²	DIN 53 452	45
Impact strength	mJ/mm ²	DIN 53 453	No break
Shore hardness D	-	ISO 2039-2	76
Thermal properties			
Thermal conductivity	W/(K.m)	-	0.22
Coefficient of expansion	10 ⁻⁴ /°C	-	1.8
Short use temperature	°C	T mo	140
Continuous use temperature	°C	T mo	100
Vicat softening temperature (AT 50 N (VST/B))	°C	ISO 306	88
Electrical properties			
Electrical coefficient at 2-106 Hz	-	DIN 53 483	2.4
Dielectric loss factor at 106 Hz	Bei 10 ⁵ Hz	DIN 53 483	3,3·10 ⁻⁴
Dielectric strength	kV/mm	DIN 53 483	80
Insulation resistance	Ohm·m ²	DIN 53 482	>10 ¹⁶
Surface resistance	Ohm	DIN 53 482	>10 ¹³

* Estos datos son de gran utilidad para la elección del material. Los datos que aparecen en esta lista son valores indicativos y no deben ser utilizados para establecer los límites de especificación del material. A partir de estos valores no podrá deducirse una vinculación legal de seguridad de determinadas propiedades o de la idoneidad de una aplicación concreta.