

POLYFORT NATURAL

POLYFORT NATURAL is a homopolymer polypropylene pressed 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
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
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

* These data are very useful for the choice of material. The data listed here are indicative values and should not be used to establish specification limits of the material. From these values may not be deducted a legally binding of security of certain properties or the suitability for a particular application.