

## POLYTEC PPC

POLYTEC PPC is a pressed ethylene-propylene block copolymer polypropylene with reinforced formular and high thermal stability. Its crystal structure provides high rigidity and very high resistance to traction and impact, expecially at very low temperatures.

In addition, it has a very low moisture absorption, which is why this product is especially recommended for the mining industry.

PROPERTIES	UNITS	TEST METHOD	VALUE
<b>Properties</b>			
Density	g/cm <sup>3</sup>	ISO 1183	0.905
<b>Mechanical properties</b>			
Tensile strenght at yield	N/mm <sup>2</sup>	DIN 527-2	28
Tensile modulud of elasticity	N/mm <sup>2</sup>	ISO 178	1200
Charpy impact strenght (23°C notched)	kJ/m <sup>2</sup>	ISO 179	55
Shore Hardness D	-	ISO 868	62
<b>Thermal properties</b>			
Thermal conductivity	W/(K.m)	-	0.21
Average coefficient of lineal expansion	10 <sup>-4</sup> /°C	-	1.9
Max. service temperature short term	°C	T mo	148
Service temperature continously	°C	T mo	-35 A 120
<b>Electrical properties</b>			
Dielectric withstand	kV/mm	DIN 53 483	50
Resistance volumetric	'Ω·m <sup>2</sup>	DIN 53 483	>10 <sup>14</sup>
Surface resistance	'Ω	DIN 53 483	>10 <sup>13</sup>

Note: 1g/cm<sup>3</sup> = 1,000 kg/m<sup>3</sup>; 1Mpa= 1N/mm<sup>2</sup> ; 1kV/mm = 1MV/m

\* 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.