

POLYTEC 1000 REG

POLYTEC 1000 REG is a high density polyethylene with an ultra-high molecular weight obtained from the recuperation of the 100% residues of our manufacturing, which gives appropriate properties for use it in the mechanical, chemical, port industries...

Besides continuing with our policy of engagement with the environment, this product is an economical choice as a substitute for our POLYTEC 1000 for less stringent applications.

This material is available in green and black color.

PROPERTIES	UNITS	TEST METHODS	VALUES
Properties			
DENSITY	g/cm ³	ASTM D1505	0.925-0.94
Thermal properties			
MELTING POINT	OC	ASTM D3418	133-135
Mechanical Properties at 23°C			
TENSILE STRENGTH AT YIELD	MPa	ASTM D638	≥17
TENSILE STRENGTH AT BREAK	MPa	ASTM D638	≥40
ELONGATION AT BREAK	%	ASTM D638	350-400
IMPACT STRENGTH (IZOD WITH NOCTCH)	J/m	ASTM D256	NO BREAK
HARDNESS (ROCKWELL)	SHORE D	ASTM D785	63-68
FLEXURAL MODULUS	MPA	ASTM D790	930-980
COEFFICIENT FRICTION DYNAMIC	-	ASTM 1894	0.10-0.16
COEFFICIENT FRICTION STATIC	-	ASTM 1894	0.11-0.18

*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.