

PolyTrace

PolyTrace is a UHMWPe that is detectable by x-ray, **PolyTrace** is this the first FDA & BgVV approved polyethylene of its kind. The material composition allows detection by x-ray scanners and yet still retains its food industry approval.

PolyTrace can be easily identified as it contrasts clearly against other materials when being x-rayed.

Characteristics

- Recognition by an x-ray scanner from 1 cubic mm or greater.
- FDA & BgVV admission corresponds to EU guideline 2002/72/EG
- High Wear resistance
- High impact strength
- Excellent sliding properties low coefficient of friction
- Will not split or crack at low temperatures
- Good chemical resistance

Applications include food confectionary and pharmaceutical.

Component parts include wear strips chain guides and machined parts.

Available in

Sheet from 10 mm – 100 mm thickness 2000 mm x 1000 mm Colour blue.

Solid Rods from 8 mm – 200 mm diameter Colour blue.

Yield stress (MPa) DIN EN ISO 527	>= 16
Density (g/cm ³) ISO 1183	1,160
Temperature range (°C)	-260 to +80
Surface resistivity (Ohm) DIN IEC 60093	10 ¹¹
Shore hardness (D) ISO 868	
Elongation at break (%) DIN EN ISO 527	>= 30
Tensile modulus of elasticity (MPa) DIN EN ISO 527	>= 900
Notched impact strength (kJ/m ²) DIN EN ISO 179	-

All specifications are deemed to be approximate values and may vary depending on the processing methods used and the specimen or test piece. In general, data specified applies to average values measured on extruded sheets with a thickness of 4mm. Deviations from the values specified are possible if the sheets in this thickness are not available. Information presented herein cannot necessarily be applied to finished items or products. Suitability of materials for a specific field of application must be assessed by the party responsible for processing or the end-user.

All technical specifications presented herein are designed merely to provide assistance in terms of project planning. Under no circumstances do they constitute a guaranteed property or quality of the items presented.