

POLYSTONE ULTRA Product Information

Product Description

Ultra High Molecular Weight Polyethylene
 Colour – Green
 Molecular Weight + 7 million g/mol

Specially formulated with improved sliding characteristics improving its resistance to wear, abrasion and environmental stress cracking. Ideally suited to flow promotion and mechanical transmission support products.

Delivery Program

ROD Diameters ranging from 50mm to 200mm

SHEET Thicknesses from 3mm to 160mm
 2000 x 1000
 3000 x 1000
 3000 x 2000
 6000 x 1000

CUT TO SIZE

CUSTOM PARTS

Applications

- Chain guides
- Doctor blades
- Sprockets
- Chute liners
- Tank liners
- Hopper liners
- Suction box covers

Properties

Density <small>DIN 53479, Units g/cm³</small>	.93
Crystalline Melting Range <small>Units °C</small>	130-135
Tensile Strength at Yield <small>DIN 53455, Units N/mm²</small>	≥20
Tensile Strength at Break <small>DIN 53455, Units N/mm²</small>	≥40
Elongation at Break <small>DIN 53455, %</small>	>350
Ball Indentation Hardness <small>DIN 53456, Units N/mm²</small>	38
Shore Hardness <small>DIN53505</small>	63
Notched Impact Strength	no failure
Abrasion Index <small>Sand – Slurry</small>	80
Coefficient of Linear Thermal Expansion <small>K₋₁</small>	2.10 ₄
Dielectric Strength <small>DIN 53481, Units KV/mm (measured on 1mm thick material)</small>	900
Surface Resistivity <small>DIN 53482, Units Ω (measured on 1mm thick material)</small>	-
Volume Resistivity <small>DIN 53481, Units Ω cm (measured on 1mm thick material)</small>	-
Minimum/maximum Service Temperature in Air <small>Units °C</small>	-260/+90