

POLYSTONE HM500 Product Information

Product Description

High Molecular Weight Polyethylene

Natural Colour

Molecular Weight +/- 500,000 g/mol

Excellent mechanical properties supported by rigidity and creep resistance make this Polyethylene ideal for use in the food industry as cutting boards, underlays in food preparation and machined parts.

Delivery Program

ROD Not available

SHEET Thicknesses from 1mm to 100mm
2000 x 1000
200 x 1000

CUT TO SIZE

CUSTOM PARTS

Applications

- FDA approved
- Cutting boards
- Rolling pins
- Mixer blades

Properties

Density <small>DIN 53479, Units g/cm³</small>	.92
Crystalline Melting Range <small>Units °C</small>	130
Tensile Strength at Yield <small>DIN 53455, Units N/mm²</small>	28
Tensile Strength at Break <small>DIN 53455, Units N/mm²</small>	36
Elongation at Break <small>DIN 53455, %</small>	>600
Ball Indentation Hardness <small>DIN 53456, Units N/mm²</small>	46
Shore Hardness <small>DIN53505</small>	62D
Notched Impact Strength	>20
Abrasion Index <small>Sand - Slurry</small>	325
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>	1500
Surface Resistivity <small>DIN 53482, Units Ω (measured on 1mm thick material)</small>	>10 ¹⁴
Volume Resistivity <small>DIN 53481, Units Ω cm (measured on 1mm thick material)</small>	>10 ¹⁴
Minimum/maximum Service Temperature in Air <small>Units °C</small>	-100/+80