

Datasheet

RS PRO PE 1000 Natural Plate

3mm thick x 960mm x 470mm

Stock No: **680-561****Specifications:**

Chemical designation	PE-UHMW (Polyethylene – Ultra-High Molecular Weight)
Colour	Natural
Density	0.93 g/cm ³
Filler(s)	None

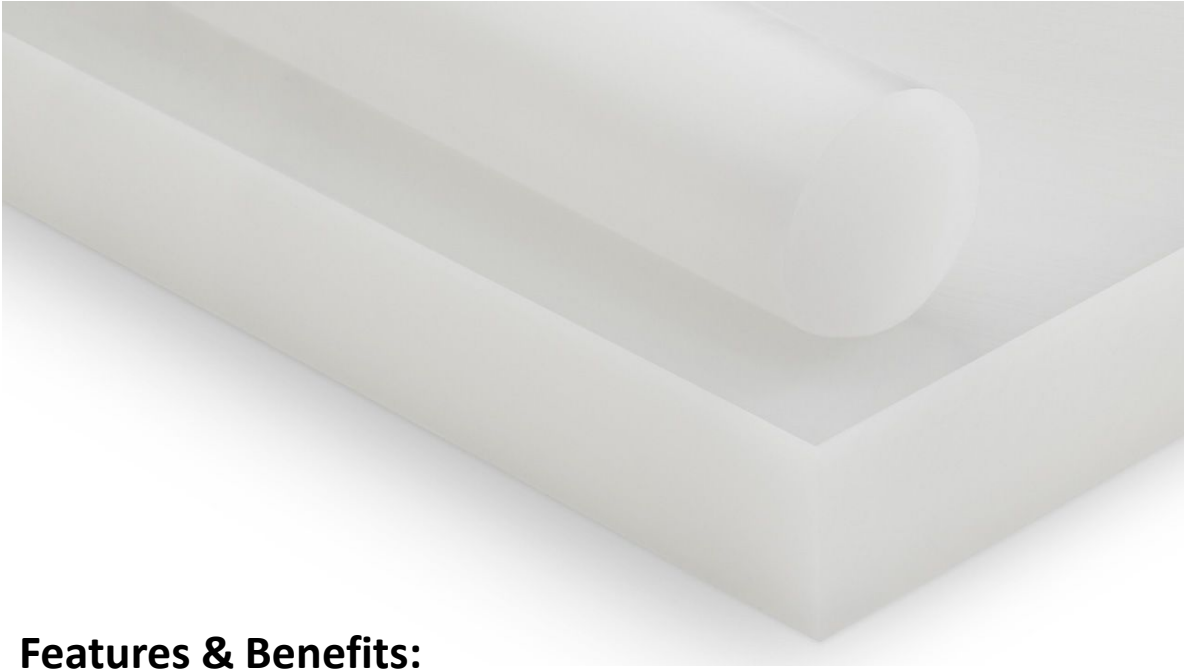
Technical Specifications:

Mechanical Properties	Parameter	Value	Unit	Standard/Norm
Modulus of elasticity (tensile test)		700	MPa	DIN EN ISO 527-1
Tensile strength at yield		19	MPa	DIN EN ISO 527-1
Elongation at yield		11	%	DIN EN ISO 527-1
Impact strength (Charpy)		n.b.	kJ/m ²	DIN EN ISO 179-1
Shore hardness	Shore D	60		DIN EN ISO 868
Ball indentation hardness		30	MPa	ISO 2039-1

Thermal Properties	Parameter	Value	Unit	Standard/Norm
Service temperature		-260	°C	-
Service temperature		+80	°C	-
Thermal expansion (CLTE)		18	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2

Electrical Properties	Parameter	Value	Unit	Standard/Norm
surface resistivity		> 10 ¹⁴	Ω	DIN IEC 60093
Dielectric strength		44	kV/mm	ISO 60243-1

Other Properties	Parameter	Value	Unit	Standard/Norm
Water absorption		< 0,01	%	DIN EN ISO 62
Flammability	corresponding to	B2		DIN 4102



Features & Benefits:

- **Ultra high molecular weight**
- **Very good abrasion resistance**
- **Excellent impact strength**
- **Very good slide and wear properties**

Compliances:

- **ISO 9001**
- **ROHS**
- **REACH**
- **FDA**
- **EU 10/2011 Compliant**
- **Physiological safety**