



SPECIFICATION SHEET

PE300 Polyethylene

<b>Properties</b>	<b>Test Method</b>	<b>Unit</b>	<b>Results</b>
Specific Gravity	ISO 1183	g/cm <sup>3</sup>	0.96
Water absorption	ISO 62	%	0.01
Maximum service temperature. Upper temp limit	-	°C	80
Lower temp limit	-	°C	-50
Tensile strength at yield	ISO 527	MPa	22
Elongation at yield	ISO 527	%	9
Tensile strength at break	ISO 527	MPa	-
Elongation at break	ISO 527	%	300
Impact strength	ISO 179	kJ/m <sup>2</sup>	No break
Notch impact strength	ISO 179	kJ/m <sup>3</sup>	19
Ball indentation / Rockwell hardness	ISO 2039-1	MPA	40
Shore – D	DIN 53505	-	64
Flexural strength	ISO 178	MPa	-
Modulus of elasticity	ISO 527	MPA	900
<b>Thermal Properties</b>			
Vicat-softening point VST/B/50	<b>ISO 306</b>	°C	-
Heat deflection temperature HDT/B	<b>ISO 75</b>	°C	-
Coefficient of linear thermal expansion	<b>DIN 53752</b>	<b>K<sup>-1</sup>*10<sup>-4</sup></b>	<b>1.8 x 10<sup>-4</sup></b>
Thermal conductivity at 20°C	<b>DIN 52612</b>	<b>W(m*K)</b>	<b>0.38</b>

Properties	Test Method	Unit	Results
<b>Electrical Properties</b>			
Volume resistivity	VDE 0303	$\Omega \times m$	-
Surface resistance	-	$\Omega$	1014
Dielectric constant at 1MHz	-	-	-
Dielectric loss factor at 1 MHz	DIN 53483	-	-
Dielectric Strength	VDE 0303	kV/mm	47
Tracking resistance	IEC 60112	-	>600
<b>Additional Data</b>			
Bondability	-	-	+
Food compliance	FDA	-	+
Flammability	UL 94	-	HB

**Key :**

Yes = +    Limited = 0    No = -

**QUALITY ASSURED PRODUCTS WITH FULL TRACEBILITY**

Care should be taken in selecting the most suitable quality for each application.

Advice is available but final responsibility remains with the customer.