



Technical Data Sheet PE

Yazd polymer

Property	PE80B	PE100	Units	Test Method
Density	950	960	kg/m ³	ISO 1183D, ISO 1872-2
Tensile Yield Strength	20	23	MPa	ISO 527
Elongation at Yield	10	8	%	ISO 527
Tensile Modulus – short term	700	950	MPa	ref. AS/NZS2655.1
Tensile Modulus – long term	200	260	MPa	ref. AS/NZS2655.1
Hardness Shore D	59	64	-	DIN 53505
Notched Impact Strength (23°C)	35	26	kJ/m ²	ISO 179/1eA
Melt Flow Rate 190/5	0.7-1.0	0.3-0.5	g/10 min	ISO 1133
Thermal Expansion	2.4	2.4	x 10 ⁻⁴ /°C	-
Thermal Conductivity (20°C)	0.43	0.4	W/m.k	DIN 52612
Crystalline Melting Point	125	132	°C	-
Dielectric Strength	70	53	kV/mm	-
Surface Resistivity	>10 ¹⁵	>10 ¹⁵	Ohm	-
Volume Resistivity	>10 ¹⁵	>10 ¹⁵	Ohm.cm	-
Poisson Ratio	0.4	0.4	μ	-