

Technical Data Sheet

POLSER HDPE



I. Physical Properties

	Test method	Unit	Value
1. Specific gravity	ISO 1183	g/cm ³	0,95
2. Water absorption	ISO 62	%	-
3. Maximum permissible service temp. (no stronger mechanical stress involved)	-		-
Upper temperature limit	-	°C	100*/80**
Lower temperature limit	-	°C	-40

II. Mechanical Properties

	Test method	Unit	Value
1. Tensile strength at yield	ISO 527	MPa	27
2. Elongation at breal	ISO 527	%	>500
3. Tensile strength at break	ISO 527	MPa	-
4. Impact strength	ISO 179	kJ/m ²	no break
5. Notch impact strength	ISO 179	kJ/m ²	no break
6. ESCR (10% Igepal), F50*	ASTM D1693B	Hr	>1200
7. Shore-D	DIN 53505		61
8. Flexural strength	ISO 178	MPa	26
9. Modulus of flexural	ISO 527	MPa	1050

III. Thermal Properties

	Test method	Unit	Value	
1. Vicat-softening point	VST/B/50	ISO 306	°C	125

All values are characteristics of the used raw materials. (* = Short period, ** = Long period)

The physical data contained in this table are typical values. They are obtained on test specimens under specific conditions and represent average values of many tests at POLSER POLIMER's laboratory. The results obtained on these tests specimens cannot be applied to finished parts without reservations, as behavior is influenced by processing and shaping. Reproduction only with our definite permission.