



POM standard values

Properties	Unit	POM Homopolymer	POM Copolymer
Tensile strength at break	N/mm ²	67-69	-
Elongation at yield	%	-	-
max. continuous service temperature	°C	-	-
Melting point	°C	175	164-168
Density	gr/cm ³	1,42	1,41
Yield stress	N/mm ²	67-85	62-71
Elongation at break	%	-	-
Elastic modulus (tension)	kN/mm ²	2,9-3,5	2,7-3,2
Flexural stress at given strain	N/mm ²	-	-
Notched impact strength Izod, ISO 180/1A at +23 °C		-	4-7
Notched impact strength Izod, ISO 180/1A at -30 °C		-	4-7
Rockwell hardness		M92-94	M80
Thermal conductivity	W/mK	0,37	0,31
Thermal expansion 20/100 °C	10 ⁻⁵ l/K	1,1	1,2
Ball indentation hardness 358/10	N/mm ²	-	-
Specific electrical resistance	Ohm x cm	-	10 ¹⁴
Dielectric strength	kV/mm	70	70
Water absorption 23°C, 50% RH	%	-	-
Water absorption 23°C, saturation	%	0,9-1,4	0,65
Impact strength +23°C	kJ/m ²	-	80
Izod ISO 180/1C -30 °C	kJ/m ²	-	70-160
Notched impact strength Charpy, DIN 53453 +23°C	kJ/m ²	-	-
Notched impact strength Charpy, DIN 53453 -40°C	kJ/m ²	-	-
Remarks	-	-	-