Technical Data Sheet
POLSER POM-C

I. Physical Properties

	Test method	Unit	Value
1. Specific gravity	ISO 1183	g/cm³	1,41
2. Water absorption	ISO 964	%	0,1
3. Maximum permissible service temp.			-
(no stronger mechanical stress involved)	-		
Upper temperature limit	-	°C	140*/100**
Lower temperature limit	-	°C	-

II. Mechanical Properties

	Test method	Unit	Value
1. Tensile strength at yield	ISO 527	MPa	63
2. Elongation at yield.	ISO 527	%	10
3. Tensile strength at break	ISO 527	MPa	-
4. Elongation at break	ISO 527	%	31
5. Impact strength	ISO 179	kJ/m^2	no break
6. Notch impact strength	ISO 179	kJ/m^2	6
7. Ball indentation / Rockwell hardness	ISO 2039-1	MPa	125 / -
8. Shore-D	DIN 53505		82
9. Flexural strength	ISO 178	MPa	-
10. Modulus of elasticity	ISO 527	MPa	2600

III. Thermal Properties

	Test method	Unit	Value
1. Vicat-softening point VST/B/50	ISO 306	°C	151
- Melting point	ISO 11357	°C	166
2. Heat deflection temperature HDT/A	ISO 75	°C	95
		°C	-
3. Coefficient of linear thermal expansion	DIN 53752	$K^{-1}*10^{-4}$	1,2
4. Thermal conductivity at 20 °C		W/(m∗K)	-

IV. Electrical Properties

	Test method	Unit	Value
1. Volume resistivity	VDE 0303	Ω∗cm	>= 10^{13}
2. Surface resistivity		Ω	>= 10^{13}
3. Dielectric constant at 1MHz		-	3,8
4. Dielectric loss factor at 1 MHz	DIN 53483	-	0,005
5. Dielectric strength	VDE 0303	kV/mm	40
6. Tracking resistance	IEC 60112	-	CTI 600

V. Additional Data

	Test method	Unit	Value
1. Bond ability		-	-
2. Friction coefficient	DIN 53375	-	0,35
3. Flammability	UL 94	-	HB
4. UV stabilization	-	-	-

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.