ENGLISH

Datasheet

RS PRO POM-H Natural Rod 20mm Diameter x 1000mm long

Stock No: **770-305**

Specifications:

Chemical designation	POM-H (Polyacetal (Homopolymer))
Colour	White
Density	1.43 g/cm^3
Filler(s)	None

Technical Specifications:

Mechanical Properties	Parameter	Value	Unit	Standard/Norm
Modulus of elasticity (tensile test)	1mm/min	3400	MPa	DIN EN ISO 527-2
Tensile strength	50mm/min	79	MPa	DIN EN ISO 527-2
Tensile strength at yield	50mm/min	79	MPa	DIN EN ISO 527-2
Elongation at yield	50mm/min	37	%	DIN EN ISO 527-2
Elongation at break	50mm/min	45	%	DIN EN ISO 527-2
Flexural strength	2mm/min, 10N	106	MPa	DIN EN ISO 178
Modulus of elasticity (flexural test)	2mm/min, 10N	3600	MPa	DIN EN ISO 178
Compressive strength	1% / 2%; 5mm/min, 10N	19 / 33	MPa	EN ISO 604
Compression modulus	5mm/min, 10N	3700	MPa	EN ISO 604
Impact strength (Charpy)	max. 7.5J	n.b.	kJ/m2	DIN EN ISO 179-1eU
Notched impact strength (Charpy)	max. 7.5J	15	kJ/m2	DIN EN ISO 179-1eA
Ball intendation hardness		185	MPa	ISO 2039-1

Thermal Properties	Parameter	Value	Unit	Standard/Norm
Glass transition temperature		-60	°C	DIN 53765
Melting temperature		182	°C	DIN 53765
Service temperature	Short term	150	°C	
Service temperature	Long term	110	°C	
Thermal expansion (CLTE)	23-60°C, long	12	10^-5 K^-1	DIN EN ISO 11359-1;2
Thermal expansion (CLTE)	23-100°C, long	13	10^-5 K^-1	DIN EN ISO 11359-1;2
Specific heat		1.3	J/(g*K)	ISO 22007-4:2008
Thermal conductivity		0.43	W/(K*m)	ISO 22007-4:2008
Electrical Properties	**Parameter**	**Value**	**Unit**	**Standard/Norm**
Specific surface resistance	Silver electrode, 23°C, 12% r.h.	10^14	W	DIN IEC 60093
Other Properties	**Parameter**	**Value**	**Unit**	**Standard/Norm**
Water absorption	24h / 96h (23 °C)	0.05 / 0.1	%	DIN EN ISO 62
Resistance to hot water / bases		-		
Resistance to weathering		-		
Flammability (UL94)	corresponding to	HB		DIN IEC 60695-11-10

Features & Benefits:

- Manufactured using DuPont™ Delrin® resin
- High Strength
- Difficult to bond
- Good slide and wear properties
- Good machinability
- Not hot water resistant over 60°C
- Good chemical resistance
- Easy to polish
- Electrically insulating

Compliances:

- ISO 9001 Approved
- ROHS
- REACH
- FDA
- EU 10/2011
- Aerospace Approved