

Datasheet

RS PRO Nylon 66 Black Rod 25mm Diameter x 1000mm long

Stock No: 257-7243

**Specifications:**

Chemical designation	PA 66 (Polyamide 66)
Colour	Black
Density	1.15 g/cm ³
Filler(s)	Molybdenum Disulfide (MoS ₂)

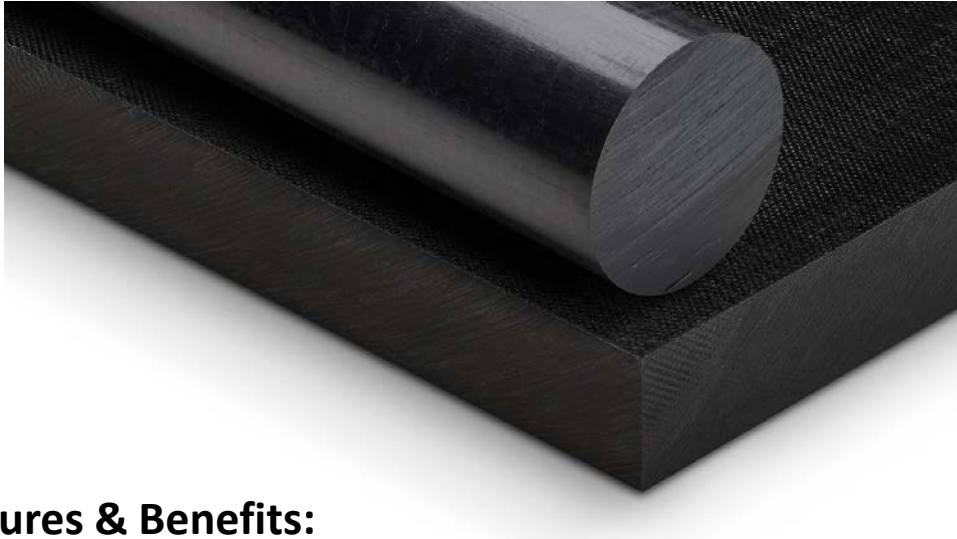
Technical Specifications:

Mechanical Properties	Parameter	Value	Unit	Standard/Norm
Modulus of elasticity (tensile test)	1mm/min	3200	MPa	DIN EN ISO 527-2
Tensile strength	50mm/min	84	MPa	DIN EN ISO 527-2
Tensile strength at yield	50mm/min	83	MPa	DIN EN ISO 527-2
Elongation at yield	50mm/min	10	%	DIN EN ISO 527-2
Elongation at break	50mm/min	40	%	DIN EN ISO 527-2
Flexural strength	2mm/min, 10N	114	MPa	DIN EN ISO 178
Modulus of elasticity (flexural test)	2mm/min, 10N	3100	MPa	DIN EN ISO 178
Compressive strength	1% / 2%; 5mm/min, 10N	20/38/86	MPa	EN ISO 604
Compression modulus	5mm/min, 10N	2700	MPa	EN ISO 604
Impact strength (Charpy)	max. 7.5J	n.b.	kJ/m ²	DIN EN ISO 179-1eU
Notched impact strength (Charpy)	max. 7.5J	5	kJ/m ²	DIN EN ISO 179-1eA
Ball indentation hardness		168	MPa	ISO 2039-1

Thermal Properties	Parameter	Value	Unit	Standard/Norm
Glass transition temperature		52	°C	DIN 53765
Melting temperature		253	°C	DIN 53765
Service temperature	Short term	170	°C	
Service temperature	Long term	100	°C	
Thermal expansion (CLTE)	23-60°C, long	10	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2
Thermal expansion (CLTE)	23-100°C, long	10	10 ⁻⁵ K ⁻¹	DIN EN ISO 11359-1;2
Specific heat		1.5	J/(g*K)	ISO 22007-4:2008
Thermal conductivity		0.36	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
Specific volume resistance	Silver electrode, 23°C, 12% r.h.	10 ¹⁴	W*cm	DIN IEC 60093
Dielectric strength	23°C, 50% r.h.	35	kV/mm	ISO 60243-1
Resistance to tracking (CTI)	Platin electrode, 23°C, 50% r.h., solvent A	600	V	DIN EN 60112

Other Properties	Parameter	Value	Unit	Standard/Norm
Water absorption	24h / 96h (23 °C)	0.4	%	DIN EN ISO 62
Resistance to hot water / bases		(+)		
Resistance to weathering		(+)		
Flammability (UL94)	corresponding to	HB		DIN IEC 60695-11-10



Features & Benefits:

- **Very high stiffness**
- **Resistant to many oils, greases and fuels**
- **Good wear properties**
- **Very high strength**
- **High dimensional stability**
- **Good heat deflection temperature**
- **Good weldable and bondable**
- **Offers improved UV resistance**

Compliances:

- **ISO 9001 Approved**
- **ROHS**
- **REACH**