

Datasheet

RS PRO TORLON 4203 Brown Rod 1" Diameter x 300mm long

Stock No: 257-7085



Specifications:

Chemical designation	PAI (Polyamide-imide)
Colour	Brown
Density	1.41 g/cm ³
Filler(s)	None

Technical Specifications:

Mechanical properties	Parameter	Value	Unit	Standard/Norm
Modulus of elasticity (tensile test)		4500	MPa	527
Tensile stress at break		120	MPa	527
Tensile strain at break		10	%	527
Compressive stress at 1% nom strain		27	MPa	604
Compressive strength at 2% nom strain		53	MPa	604
Notched impact strength (Charpy)		10	kJ/m ²	179/1eA
Ball indentation hardness		200	N/mm ²	2039-1

Thermal properties	Parameter	Value	Unit	Standard/Norm
Glass transition temperature		280	°C	-
Melting temperature		NA	°C	-
Service temperature	short term	270	°C	-
Service temperature	long term	250	°C	-
Thermal expansion (CLTE)	23-100°C,	30.10 ⁻⁶	m/(m.K)	-
Thermal expansion (CLTE)	23-150°C, long.	30.10 ⁻⁶	m/(m.K)	-
Thermal conductivity at 23°C		0.26	W/(K*m)	-

Electrical properties	Parameter	Value	Unit	Standard/Norm
Surface resistance		>10 ¹³	Ohm	60093
Specific volume resistance		>10 ¹⁴	Ohm*cm	60093

Other properties	Parameter	Value	Unit	Standard/Norm
Water absorption	24h / 96h (23°C)	26	mg	29
Water absorption	saturation (23°C)	4.4	%	-
Flammability		V0		UL94



Features & Benefits:

- **High dimensional stability**
- **Good machinability**
- **High temperature resistance**
- **Good electrical insulation**

Compliances:

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