



MDS.44.00

TP-303

BEARINGS

Physical Properties

Property	Method	Units	Specification
Water Absorption, 24 hours	ASTM D 570	%	0.30
Color	-	-	Black
Specific Gravity	ASTM D 792	g/cm ³	1.44 - 1.46

Mechanical Properties

Elongation, at break	ASTM D 638	%	≥ 2
Tensile strength, at Yield (23°C)	ASTM D 638	MPa	≥ 70
Tensile modulus	ASTM D 638	GPa	≥ 9
Compressive strength, at 23°C	ASTM D 695	MPa	≥ 90
Izod impact strength, notched	ASTM D 256	J/m	≥ 50
Hardness Shore	ASTM D 2240	Shore D	≥ 80
Hardness Rockwell, M scale	ASTM D 785	Rockwell	≥ 90
Coefficient of static friction	ASTM D 3702	-	≤ 0.25
Coefficient of dynamic friction	ASTM D 3702	-	≤ 0.15

Thermal Properties

Peak Melting Temperature	ASTM D3418	°C	342
Specific heat capacity, at 23°C	DSC	kJ kg ⁻¹ °C ⁻¹	1.8
Thermal conductivity, at 23°C	ASTM E1530	W/mK	0.87
Deflection Temperature, 1.8MPa	ASTM D648	°C	290
Max service temperature, short periods	Internal test	°C	310
Flammability	UL94	-	V-0

Electrical Properties

Dielectric Strength , 2mm thk	ASTM D149	kV/mm	≥ 21
Surface Resistivity	ASTM D257	Ohm	10 ¹⁰
Volume Resistivity	ASTM D257	Ohm*cm	10 ¹¹



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