

Meldin® 7003

Meldin® 7003 includes 15% molybdenum disulfide lubricating filler for wear applications that operate in a vacuum or in very dry conditions.

Property	Test Method	Units	Meldin® 7003
Mechanical			
Tensile Strength	ASTM D638	psi	9,200
Elongation	ASTM D638	%	5.5
Flexural Strength	ASTM D790	psi	13,000
Flexural Modulus	ASTM D790	psi	450,000
Compressive Stress @ 1% Strain	ASTM D695	psi	3,700
Compressive Stress @ 10% Strain	ASTM D695	psi	17,000
Compressive Modulus	ASTM D695	psi	363,000
Coefficient of Thermal Expansion 73°F to 500°F	ASTM E831	in/in/°F	-
Thermal Conductivity	ASTM F433	BTU-in/hr-ft ² -°F	-
Electrical			
Dielectric Strength, .08"	ASTM D149	V/mil	-
Dielectric Constant			
100 Hz	ASTM D150		-
10 KHz	ASTM D150		-
1 MHz	ASTM D150		-
Surface Resistivity	ASTM D257	ohm/square	-
Other			
Specific Gravity	ASTM D792		1.61
Hardness, Rockwell E	ASTM D785		-
Water Absorption, 24 hrs	ASTM D570	%	-
Water Absorption, 48 hrs	ASTM D570	%	-
Deformation Under Load, 2000 psi	ASTM D621	%	-
Limiting Oxygen Index	ASTM D2863		-
Mechanical Properties @ 500 °F			
Tensile Strength	ASTM D638	psi	-
Elongation	ASTM D638	%	-
Flexural Strength	ASTM D790	psi	-
Flexural Modulus	ASTM D790	psi	-
Specification Qualification			
ASTM D-6456-99		Satisfies	Type III
SAE AMS 3644E		Satisfies	Class 5 Form P
MIL-R-46198		Satisfies	Type III

Values in this table are for compression-molded material.

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets. All values at 73°F (23°C) unless otherwise noted.