

# MATERIAL DATASHEET

# Meldin® 5350

**Features:** Black Offers superior wear resistance and low friction

**Benefits:** Recommended for bearings and piston rings

**Working Temperature Range:** -80° to +260°C [-112° to +500°F]

Properties	Test Methods	Typical Values	Units
<b>PHYSICAL</b>			
Specific Gravity	ASTM D792	1.45	--
Water Absorption, 24hr	ASTM D570	0.06	%
<b>MECHANICAL</b>			
Tensile Strength – RT / 249°C	ASTM D638	138 [20,000] / 33 [4,800]	MPa [psi]
Elongation-RT	ASTM D638	2.2	%
Tensile Modulus-RT	ASTM D638	10[15]	GPa [psi x 10 <sup>5</sup> ]
Compressive Strength – RT / 200°C	ASTM D695	150 [21,700] / NA	MPa [psi]
Compressive Modulus-RT	ASTM D695	NA	GPa [psi x 10 <sup>5</sup> ]
Flexural strength – RT / 249°C	ASTM D790	211 [30,600] / 33 [4,800]	MPa [psi]
Flexural Modulus-RT	ASTM D790	10 [14]	GPa [psi x 10 <sup>5</sup> ]
<b>THERMAL</b>			
Melting point	ASTM D3418	343[650]	°C [°F]
Glass Transition Temperature	ASTM D3418	143 [290]	°C [°F]
Linear Coefficient of Thermal Expansion along flow, <Tg / >Tg	ASTM E831	1.5 [0.84] / 1.5 [0.84]	m/m/°C [in/in/°F] x 10 <sup>-5</sup>
Linear Coefficient of Thermal Expansion average, <Tg / > Tg	ASTM E831	4.5 [2.5] / 11 [6.2]	m/m/°C [in/in/°F] x 10 <sup>-5</sup>
Thermal conductivity	ASTM F433	0.87 [6.1]	GPa [psi x 10 <sup>5</sup> ]
Heat deflection temperature	ASTM D648	316 [600]	°C [°F]
<b>ELECTRICAL</b>			
Dielectric Strength (2.5 mm thick)	ASTM D149	NA	kV/m [V/mil]
Dielectric Constant-RT, 1kHz)	ASTM D150	NA	-
Volume Resistivity-RT	ASTM D257	10 <sup>10</sup>	Ohm cm

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