

MATERIAL DATASHEET

Meldin[®] 5320

Features: *Beige, Provides strength and rigidity, Very good mechanical properties at elevated temperature*

Benefits: *Recommended for structural parts*

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

Properties	Test Methods	Typical Values	Units
PHYSICAL			
Specific Gravity	ASTM D792	1.51	--
Water Absorption, 24hr	ASTM D570	0.11	%
MECHANICAL			
Tensile Strength – RT / 249°C	ASTM D638	166 [24,000] / 25 [3,600]	MPa [psi]
Elongation-RT	ASTM D638	2.1	%
Tensile Modulus-RT	ASTM D638	9.7 [14]	GPa [psi x 10 ⁵]
Compressive Strength – RT / 200°C	ASTM D695	215 [31,200] / 30 [4,300]	MPa [psi]
Compressive Modulus-RT	ASTM D695	NA	GPa [psi x 10 ⁵]
Flexural strength – RT / 249°C	ASTM D790	231 [33,500] / 28 [4,100]	MPa [psi]
Flexural Modulus-RT	ASTM D790	10[14.5]	GPa [psi x 10 ⁵]
THERMAL			
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	1.8 [1] / 1.8 [1]	m/m/°C [in/in/°F] x 10 ⁻⁵
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 ⁻⁵
Thermal conductivity	ASTM F433	0.3 [2.1]	GPa [psi x 10 ⁵]
Heat deflection temperature	ASTM D648	325 [617]	°C [°F]
ELECTRICAL			
Dielectric Strength (2.5 mm thick)	ASTM D149	20[510]	kV/m [V/mil]
Dielectric Constant-RT, 1kHz)	ASTM D150	3.2	-
Volume Resistivity-RT	ASTM D257	10 ¹⁶	Ohm cm

The table above represents typical values, intended for reference only. They should NOT be used as a basis for design specifications or quality control. Meldin[®] is a registered trademark.
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