

MELDIN[®] 7021 TYPICAL PHYSICAL PROPERTIES

PROPERTY	ASTM METHOD	METRIC VALUE	METRIC UNITS	ENGLISH VALUE	ENGLISH UNITS
GENERAL					
Specific Gravity	D792	1.42	—	1.42	—
Hardness Rockwell E*	D785	36	—	36	—
Water Absorption, 24 hours*	D570	0.19	%	0.19	%
Water Absorption , 48 hours*	D570	0.50	%	0.50	%
MECHANICAL					
Tensile Strength @ 23 °C (73 °F)	D638	63	MPa	9,100	psi
Tensile Strength @ 260 °C (500 °F)	D638	32	MPa	4,700	psi
Elongation @ 23 °C (73 °F)	D638	5.5	%	5.5	%
Elongation @ 260 °C (500 °F)	D638	5.2	%	5.2	%
Flexural Strength @ 23 °C (73 °F)	D790	89.5	MPa	13,000	psi
Flexural Strength @ 260 °C (500 °F)	D790	52	MPa	7,500	psi
Flexural Modulus @ 23 °C (73 °F)	D790	3.1	GPa	4.5 x 10 ⁵	psi
Flexural Modulus @ 260 °C (500 °F)	D790	1.8	GPa	2.64 x 10 ⁵	psi
Compressive Stress @ 1% Strain	D695	23	MPa	3,400	psi
Compressive Stress @ 10% Strain	D695	106	MPa	15,300	psi
Compressive Modulus	D695	2.1	GPa	3.0 x 10 ⁵	psi
ELECTRICAL					
Dielectric Strength, Short time 2mm (.08") thick	D149	11	MV/m	280	V/mil
THERMAL					
Coefficient of Thermal Expansion 23 – 260 °C (73 – 500 °F)	E831	4.5 x 10 ⁻⁵	m/m/°C	2.5 x 10 ⁻⁵	in/in/°F
Dimensional Stability @ 260 °C (500 °F)	INTERNAL	0.04	% change	0.04	% change



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PROPERTY	ASTM METHOD	METRIC VALUE	METRIC UNITS	ENGLISH VALUE	ENGLISH UNITS
TRIBOLOGICAL					
Coefficient of Friction @ 25000 PV = 250 psi x 100 fpm	D3702	0.23	—	0.23	—
Coefficient of Friction @ 100000 PV = 500 psi x 200 fpm	D3702	0.12	—	0.12	—

Data Obtained from Direct Formed samples, except as noted.

*Compression molded sample

SAINT-GOBAIN PERFORMANCE PLASTICS

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