

# Delrin® Colors

.031", .062" and .125" thick Delrin sheets, 24" x 48", in a variety of colors

Mechanical Properties	Condition	Value	Test Method
Modulus of elasticity (Tensile test)	@ 73°F	350,000 psi	ASTM D 638
Tensile strength at yield	---	11,000 psi	ASTM D 638
Elongation at break	@ 73°F	25%	ASTM D 638
Flexural strength	@ 73°F	14,000 psi	ASTM D 790
Modulus of elasticity (Flexural test)	@ 73°F	420,000 psi	ASTM D 790
Compression strength	---	5,200 psi	ASTM D 695 <sup>(1)</sup>
Impact strength (IZOD)	@ 73°F	1.50 ft-lbs/in	---
Rockwell hardness - M scale (R scale)	@ 73°F	94 (120)	ASTM D 785
Coefficient of friction (dynamic)	40 psi, 50 fpm	0.20	ASTM D 3702
Wear rate	40 psi, 50 fpm	55* 10 <sup>-10</sup>	ASTM D 3702

Thermal Properties	Condition	Value	Test Method
Melting temperature	---	347 °F	ASTM D 2133 <sup>(2)</sup>
Deflection temperature	@ 66 psi	336 °F	ASTM D 648
Deflection temperature	@ 264 psi	257 °F	ASTM D 648
Service temperature	Intermittent	300 °F	---
Service temperature	Long term	185 °F	---
Thermal expansion (CLTE)	---	6.8* 10 <sup>-5</sup>	ASTM D 696
Specific heat	---	0.35	---

Electrical Properties	Condition	Value	Test Method
Volume resistivity	---	>10 <sup>15</sup> Ω*cm	ASTM D 257
Dielectric strength	---	500 V/mil	ASTM D 149
Dissipation factor	@ 60 Hz, 73°F	0.005	ASTM D 150
Dielectric constant (50% RH)	@ 60 Hz, 73°F	3.70	ASTM D 150

Other Properties	Condition	Value	Test Method
Moisture absorption (saturation)	@ 73°F	0.90 %	ASTM D 570
Moisture absorption (24 hours)	@ 73°F	0.25 %	ASTM D 570
Flammability (UL94)	UL 94	HB	--- <sup>(3)</sup>

(1) 1% strain, injection molded

(2) Injection molded sample

(3) 1.47 mm injection mold

Resin specification:

ASTM D6778-06 POM0111 superseding ASTM D4181-00 POM111

Shapes specification:

ASTM D6100-11 S-POM0111

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