



# Alro Plastics

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## Delrin® Colors

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

<b>Mechanical Properties</b>	<b>Condition</b>	<b>Value</b>	<b>Test Method</b>
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	40%	ASTM D 638
Flexural strength	@ 73°F	14,000 psi	ASTM D 790
Modulus of elasticity (Flexural test)	@ 73°F	460,000 psi	ASTM D 790
Compression strength, 10% strain	@ 73°F	14,000 psi	ASTM D 695
Compression strength, 1% strain	@ 73°F	2,700 psi	ASTM D 695
Compression modulus	@ 73°F	460,000 psi	ASTM D 695
Impact strength (IZOD)	@ 73°F	1.50 ft-lbs/in	ASTM D 256
Rockwell hardness - R scale	@ 73°F	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 <sup>(1)</sup>

  

<b>Thermal Properties</b>	<b>Condition</b>	<b>Value</b>	<b>Test Method</b>
Melting temperature	---	347 °F	ASTM D 2133 <sup>(2)</sup>
Deflection temperature	@ 1.80 MPa	208 °F	ISO-R Meth A <sup>(3)</sup>
Service temperature	Intermittent	300 °F	---
Service temperature	Long term	185 °F	---

  

<b>Other Properties</b>	<b>Condition</b>	<b>Value</b>	<b>Test Method</b>
Moisture absorption (saturation)	@ 73°F	0.90 %	ASTM D 570

(1) Publicly sourced data

(2) Injection molded sample

(3) Resin data

Resin specification:

ASTM D6778-06 POM0111 superseding ASTM D4181-00 POM111

Shapes specification:

ASTM D6100-11 S-POM0111

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