

CS Hyde Company

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PRODUCT INFORMATION

45-__F Delrin® 150 NC 010 Acetal Resin Film

Common features of Delrin® acetal resins include mechanical and physical properties such as high mechanical strength and rigidity, excellent fatigue and impact resistance, as well as resistance to moisture, gasoline, lubricants, solvents, and many other neutral chemicals. Delrin® acetal resins also have excellent dimensional stability and good electrical insulating characteristics. They are naturally resilient, self-lubricating, and available in a variety of colors and specialty grades. Delrin® acetal resin typically is used in demanding applications in the automotive, domestic appliances, sports, industrial engineering, electronics, and consumer goods industries. Delrin® 150 NC010 is a high viscosity acetal homopolymer specifically designed for extrusion processes. It has excellent thermal stability, low die deposit, and enhanced crystallization for low porosity.

| <u>Property</u> | <u>Test Method</u> | <u>Units</u> | <u>Value</u> |
|--------------------------------------|--------------------|--|-------------------|
| Mechanical | | | |
| Yield Stress | ISO 527-1/-2 | MPa (kpsi) | 72 (10.4) |
| Nominal Strain at Break | ISO 527-1/-2 | % | 40 |
| Yield Strain | ISO 527-1/-2 | % | 23 |
| Tensile Modulus | ISO 527-1/-2 | MPa (kpsi) | 3100 (450) |
| Flexural Modulus | ISO 178 | MPS (kpsi) | 3000 (440) |
| Notched Charpy Impact Strength | ISO 179/1eA | Kj/m ² | 12 |
| Thermal | | | |
| Deflection Temperature 0.45MPa | ISO 75-1/-2 | °C (°F) | 164 (372) |
| 1.80MPa | | | 100 (212) |
| Melting Temperature 10°/min | ISO 11357-1/-3 | °C (°F) | 178 (352) |
| Rheological | | | |
| Melt Mass-Flow Rate 190°C, 2.16kg | ISO 1133 | g/10 min | 2.3 |
| Other | | | |
| Density | ISO 1183 | Kg/m ³ (g/cm ³) | 1420 (1.42) |
| Melt Temperature Range | | °C (°F) | 210-220 (410-430) |
| Mold Temperature Range | | °C (°F) | 80-100 (175-210) |
| Processing Moisture Content | | % | <0.2 |
| Hold Pressure Range | | MPa (kpsi) | 90-110 (13-16) |

*The above values are "Typical Values" which have a nominal range about them and are not intended for specification purposes.