

DUPONT Delrin[®] 1727UV

Acetal Resin

Specifications: Mechanical properties measured at 23°C unless otherwise noted.

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Melt Flow	37 g/10 min	37 g/10 min	190°C, 2.16 kg; ISO 1133
Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	73.0 MPa	10600 psi	ISO 527-1/-2
Elongation at Break	10 %	10 %	ISO 527-1/-2
	10 %	10 %	nominal; ISO 527-1/-2
Elongation at Yield	9.0 %	9.0 %	ISO 527-1/-2
Modulus of Elasticity	3.60 GPa	522 ksi	ISO 527-1/-2
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA
Thermal Properties	Metric	English	Comments
Melting Point	178 °C	352 °F	ISO 3146C
Deflection Temperature at 0.46 MPa (66 psi)	163 °C	325 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	96.0 °C	205 °F	ISO 75-1/-2
Processing Properties	Metric	English	Comments
Melt Temperature	210 - 220 °C	410 - 428 °F	
Moisture Content	<= 0.20 %	<= 0.20 %	
Injection Pressure	90.0 - 110 MPa	13100 - 16000 psi	Hold Pressure