



Delrin®

acetal resin

Delrin® 527UV NC010

Delrin® 527UV NC010 is a medium viscosity grade with UV stabilizers developed for automotive interior applications. It has improvements in UV ageing characteristics and thermal stability over Delrin® 507.

Property	Test Method	Units	Value
Mechanical			
Yield Stress	ISO 527-1/-2	MPa	70
Yield Strain	ISO 527-1/-2	%	15
Nominal Strain at Break	ISO 527-1/-2	%	30
Strain at Break	ISO 527-1/-2	%	
50mm/min			40
Tensile Modulus	ISO 527-1/-2	MPa	3200
Flexural Modulus	ISO 178	MPa	3000
Notched Izod Impact	ISO 180/1A	kJ/m2	
-40C			6
23C			7
Notched Charpy Impact	ISO 179/1eA	kJ/m2	
-30C			8
23C			9
Unnotched Charpy Impact	ISO 179/1eU	kJ/m2	
-30C			260
23C			270
Thermal			
Deflection Temperature	ISO 75-1/-2	°C	
0.45MPa			165
1.80MPa			95
1.80MPa, Annealed			110
Melting Temperature	ISO 3146C	°C	178
Vicat Softening Temperature	ISO 306	°C	
50N			160

Contact DuPont for MSDS, general guides and/or additional information about ventilation, handling, purging, drying, etc.

Mechanical properties measured at 23°C (73°F) unless otherwise stated.

030423/991018

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Property	Test Method	Units	Value
Flow			
Melt Flow Rate 190C, 2.16kg	ISO 1133	g/10 min	15
Electrical			
Relative Permittivity 1E2 Hz, 1mm	IEC 60250		3.8
1E6 Hz, 1mm			3.8
Dissipation Factor 1E2 Hz, 1mm	IEC 60250	E-4	180
1E6 Hz, 1mm			50
Electric Strength 1mm	IEC 60243-1	kV/mm	32
Flammability			
Limited Oxygen Index	ISO 4589	%	22
Other			
Density	ISO 1183	kg/m3	1420
Hardness, Rockwell	ISO 2039/2		M92
Humidity Absorption Equilibrium 50%RH	ISO 62, Similar to	%	0.3
Water Absorption Saturation, immersed	ISO 62, Similar to	%	1.4
Processing			
Melt Temperature Range		°C	210-220
Melt Temperature Optimum		°C	215
Drying Time, Dehumidified Dryer		h	2-4
Drying Temperature		°C	80
Processing Moisture Content		%	<0.2
Hold Pressure Range		MPa	80-100

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