DuPont™ Zenite® LCP

liquid crystal polymer resin

Zenite® FG6330 NC011

Zenite® FG6330 NC011 is a 30% mineral reinforced liquid crystal polymer resin with FDA approval for use in repeated food-contact applications.

Property	Test Method	Units	Value
Identification			
Resin Identification	ISO 1043		LCP-MD30
Part Marking Code	ISO 11469		>LCP-MD30<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	130 (18.9)
Strain at Break	ISO 527	%	5
Tensile Modulus	ISO 527	MPa (kpsi)	10000 (9200)
Flexural Modulus	ISO 178	MPa (kpsi)	7100 (1030)
Flexural Strength	ISO 178	MPa (kpsi)	145 (21.0)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m^2	9
Thermal			
Deflection Temperature	ISO 75-1/-2	°C (°F)	
1.80MPa			245 (470)
Melting Temperature	ISO 11357-1/-3	°C (°F)	
10°C/min			335 (635)
Other			
Density	ISO 1183	kg/m^3 (g/cm^3)	1640 (1.64)
Molding Shrinkage	ISO 294-4	%	
Normal, 2.0mm			0.65
Parallel, 2.0mm			0

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc
ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.
Test temperatures are 23°C unless otherwise stated.

During molding, use protective equipment and clothing. Skin contact with molten Zenite® resins can cause severe burns. Be particularly alert during purging.

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Property	Test Method	Units	Value
Processing			
Melt Temperature Range		°C (°F)	350-360 (660-680)
Melt Temperature Optimum		°C (°F)	355 (670)
Mold Temperature Range		°C (°F)	40-150 (105-300)
Mold Temperature Optimum		°C (°F)	80 (175)
Drying Time, Dehumidified Dryer		h	3
Drying Temperature		°C (°F)	150 (304)
Processing Moisture Content		%	<0.01

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