

DuPont™ Zytel® nylon resin

Zytel® FGFE5171 NC010C

Zytel® FGFE5171 NC010C is a 33% glass filled nylon 66 resin. It has been developed for consideration into applications such as parts for the food industry.

Property	Test Method	Units	Value
			DAM
Resin Identification			
Resin Identification	ISO 1043		PA66-GF33
Part Marking Code	ISO 11469		>PA66-GF33<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	200 (29)
Strain at Break	ISO 527	%	3.5
Tensile Modulus	ISO 527	MPa (kpsi)	10500 (1520)
Flexural Modulus	ISO 178	MPa (kpsi)	9300 (1348)
Flexural Strength	ISO 178	MPa (kpsi)	290 (42)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	10
Thermal			
Deflection Temperature 1.80MPa	ISO 75-1/-2	°C (°F)	252 (486)
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	263 (505)
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1390 (1.39)
Processing			
Melt Temperature Range		°C (°F)	285-305 (545-580)
Mold Temperature Range		°C (°F)	70-120 (160-250)
Drying Time, Dehumidified Dryer		h	2-4
Drying Temperature		°C (°F)	80 (176)
Processing Moisture Content		%	<0.2

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.

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