

DuPont™ Zytel®

nylon resin

Zytel® FE5355 BK031

Zytel® FE5355 BK031 is a 33% glass fiber reinforced, heat stabilized, black polyamide 612 resin for injection molding.

Property	Test Method	Units	Value
			DAM
Identification			
Resin Identification	ISO 1043		PA612-GF33
Part Marking Code	ISO 11469		>PA612-GF33<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	160 (23.2)
Strain at Break	ISO 527	%	2.4
Tensile Modulus	ISO 527	MPa (kpsi)	9500 (1380)
Flexural Modulus	ISO 178	MPa (kpsi)	8000 (1160)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	11
Thermal			
Deflection Temperature 1.80MPa	ISO 75f	°C (°F)	200 (392)
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	218 (424)
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1320 (1.32)
Processing			
Melt Temperature Range		°C (°F)	280-300 (535-570)
Melt Temperature Optimum		°C (°F)	290 (555)
Mold Temperature Range		°C (°F)	70-120 (160-250)
Mold Temperature Optimum		°C (°F)	100 (210)
Drying Time, Dehumidified Dryer		h	2-4
Drying Temperature		°C (°F)	80 (175)
Processing Moisture Content		%	<0.15

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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