

DuPont™ Zytel®

nylon resin

PRELIMINARY DATA

Zytel® WRF403 NC010

Zytel® WRF403 NC010 is a 30% glass reinforced, heat stabilized PA66 resin containing Teflon® PTFE Micropowder. It is designed for highly reduced friction in applications requiring low wear and/or low friction against itself, steel, or other plastics.

Property	Test Method	Units	Value
			DAM
Identification			
Resin Identification	ISO 1043		PA66-GF30SD15
Part Marking Code	ISO 11469		>PA66-GF30SD15<
Mechanical			
Stress at Break	ISO 527	MPa (kpsi)	185 (26.8)
Strain at Break	ISO 527	%	2.8
Tensile Modulus	ISO 527	MPa (kpsi)	10300 (1500)
Flexural Modulus	ISO 178	MPa (kpsi)	9200 (1330)
Flexural Strength	ISO 178	MPa (kpsi)	270 (39.2)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	13
Unnotched Charpy Impact Strength	ISO 179/1eU	kJ/m ²	80
Thermal			
Deflection Temperature 1.80MPa	ISO 75-1/-2	°C (°F)	250 (482)
Melting Temperature 10°C/min	ISO 11357-1/-3	°C (°F)	263 (505)

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.

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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Product Information

Zytel® WRF403 NC010

Property	Test Method	Units	Value
			DAM
Other			
Density	ISO 1183	kg/m ³ (g/cm ³)	1500 (1.50)
Molding Shrinkage	ISO 294-4	%	
Normal, 2.0mm			0.8
Parallel, 2.0mm			0.3
Processing			
Melt Temperature Range		°C (°F)	285-305 (545-580)
Melt Temperature Optimum		°C (°F)	295 (565)
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		%	<0.20

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