

# DuPont™ Zytel®

nylon resin

PRELIMINARY DATA

## Zytel® FE5555 BK538

Zytel® FE5555 BK538 is a 35% glass reinforced black polyamide 66 developed for encapsulation applications.

Property	Test Method	Units	Value
			DAM
<b>Identification</b>			
Resin Identification	ISO 1043		PA66-GF35
Part Marking Code	ISO 11469		>PA66-GF35<
<b>Mechanical</b>			
Stress at Break	ISO 527	MPa (kpsi)	195 (28.3)
Strain at Break	ISO 527	%	2.8
Tensile Modulus	ISO 527	MPa (kpsi)	11000 (1600)
Flexural Modulus	ISO 178	MPa (kpsi)	9600 (1400)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m <sup>2</sup>	-40°C (-40°F)
			23°C (73°F)
<b>Thermal</b>			
Deflection Temperature	ISO 75-1/-2	°C (°F)	250 (482)
1.80MPa			
Melting Temperature	ISO 11357-1/-3	°C (°F)	260 (500)
10°C/min			
<b>Other</b>			
Density	ISO 1183	kg/m <sup>3</sup> (g/cm <sup>3</sup> )	1400 (1.40)
Mold Shrinkage	CR351	%	1.0
Normal, 2mm			
Parallel, 2mm			

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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## Zytel® FE5555 BK538

Property	Test Method	Units	Value
			DAM
<b>Processing</b>			
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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