

Zytel® FR50 BK505

NYLON RESIN
DuPont Performance Polymers

Message:
25% Glass Reinforced, Flame Retardant, Polyamide 66

General Information			
UL YellowCard	E41938-234494		
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
Agency Ratings	UL Unspecified Rating		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>PA66-GF25FR(17)<		
Resin ID (ISO 1043)	PA66-GF25FR(17)		
Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.70	%	
Flow	0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10600	MPa	ISO 527-2
Tensile Stress (Break)	158	MPa	ISO 527-2
Tensile Strain (Break)	2.1	%	ISO 527-2
Flexural Modulus	9410	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	7.9	kJ/m ²	
23°C	8.4	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	242	°C	ISO 75-2/A
Melting Temperature ¹	260	°C	ISO 11357-3
Flammability	Nominal Value		Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	V-0		
	V-0		
1.50 mm	5VA		

NOTE	
1.	10°C/min

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