

Zytel® FN718 BK230A

NYLON RESIN
DuPont Performance Polymers

Message:
Flexible Polyamide 66

General Information				
Additive	heat stabilizer			
Features	Thermal Stability			
RoHS Compliance	Contact manufacturer			
Forms	Particle			
Processing Method	Profile extrusion molding			
	Injection molding			
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)			
	Secant Modulus vs. Strain (ISO 11403-1)			
	Tensile Modulus vs. Temperature (ISO 11403-1)			
Part Marking Code (ISO 11469)	>PA66-F			
Resin ID (ISO 1043)	PA66-F			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.04	--	g/cm ³	ISO 1183
Water Absorption (Equilibrium, 23°C, 2.00 mm, 50% RH)	1.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	900	440	MPa	ISO 527-2
Tensile Stress (50% Strain)	33.0	21.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	> 50	%	ISO 527-2
Flexural Modulus	900	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	30	--	kJ/m ²	ISO 179/1eA
23°C	110	--	kJ/m ²	ISO 179/1eA
Notched Izod Impact				ISO 180/1A
-40°C	25	--	kJ/m ²	ISO 180/1A
23°C	95	--	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, not annealed	68.0	--	°C	ISO 75-2/B
1.8 MPa, not annealed	50.0	--	°C	ISO 75-2/A
Melting Temperature ¹	263	--	°C	ISO 11357-3
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	--	mm/min	ISO 3795
FMVSS Flammability	B	--		FMVSS 302
Melt Temperature, Optimum	285		°C	
Mold Temperature, Optimum	60		°C	
Drying Recommended	yes			
Injection	Dry	Unit		
Drying Temperature	80		°C	
Drying Time - Desiccant Dryer	2.0 - 4.0		hr	
Suggested Max Moisture	0.20		%	
Processing (Melt) Temp	275 - 295		°C	
Mold Temperature	40 - 80		°C	
NOTE				
1.	10°C/min			
2.	FMVSS 302			

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