

Zytel® 132F NC010

NYLON RESIN
DuPont Performance Polymers

Message:
Unreinforced, Nucleated, Polyamide 66

General Information				
UL YellowCard		E41938-100726124		
Additive		Lubricant		
		Mold Release		
Features		Lubricated		
Agency Ratings		UL Unspecified Rating		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Shear Modulus vs. Temperature (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA66<		
Resin ID (ISO 1043)		PA66		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	0.90	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	8.5	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3400	1600	MPa	ISO 527-2
Tensile Stress (Yield)	91.0	60.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.5	22	%	ISO 527-2
Nominal Tensile Strain at Break	13	> 50	%	ISO 527-2
Flexural Modulus	3000	1400	MPa	ISO 178
Films	Dry	Conditioned	Unit	Test Method
Tensile Elongation - MD (Yield)	4.4	--	%	ISO 527-3
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.5	2.5	kJ/m ²	
23°C	4.0	8.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	200	--	kJ/m ²	
23°C	300 kJ/m ²	No Break		
Notched Izod Impact Strength				ISO 180/1A
-30°C	4.0	2.0	kJ/m ²	
23°C	4.0	8.0	kJ/m ²	
Unnotched Izod Impact Strength (23°C)				ISO 180/1U
	300 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	225	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	75.0	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	60.0	--	°C	ISO 11357-2
Melting Temperature ²	262	--	°C	ISO 11357-3
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.710 mm	V-2	--		
1.50 mm	V-2	--		
Oxygen Index	29	--	%	ISO 4589-2
NOTE				
1.	10°C/min			
2.	10°C/min			

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