

Zytel® FR7026V0F NC010

NYLON RESIN
DuPont Performance Polymers

Message:
Unreinforced, Flame Retardant, Polyamide 66

General Information				
UL YellowCard		E41938-234499	E41938-101927848	
Additive		demoulding		
		Flame retardancy		
Features		Flame retardancy		
RoHS Compliance		Contact manufacturer		
Forms		Particle		
Processing Method		Injection molding		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA66-FR(30)		
Resin ID (ISO 1043)		PA66-FR(30)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.16	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	1.0	--	%	ISO 294-4
Flow	0.90	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C, 2.00mm	8.0	--	%	ISO 62
Balance, 23°C, 2.00mm, 50% RH	2.4	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness ¹ (H 358/30)	--	110	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3800	1800	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	--	60.0	MPa	ISO 527-2
Fracture	80.0	--	MPa	ISO 527-2
Tensile Strain				ISO 527-2
Yield	--	21	%	ISO 527-2
Fracture	10	--	%	ISO 527-2

Nominal Tensile Strain at Break	--	30	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	2.0	kJ/m ²	ISO 179/1eA
23°C	3.5	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	80	110	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	4.4	--	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	230	--	°C	ISO 75-2/B
1.8 MPa, not annealed	80.0	--	°C	ISO 75-2/A
Melting Temperature ²	260	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity ³	--	> 1.0E+15	ohms	IEC 60093
Dielectric Strength	31	--	kV/mm	IEC 60243-1
Comparative Tracking Index (CTI)	PLC 0	--		UL 746
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94, IEC 60695-11-10, -20
0.8 mm	V-0	--		UL 94, IEC 60695-11-10, -20
1.5 mm	V-0	--		UL 94, IEC 60695-11-10, -20
Glow Wire Flammability Index				IEC 60695-2-12
0.40 mm	960	--	°C	IEC 60695-2-12
0.75 mm	960	--	°C	IEC 60695-2-12
1.5 mm	960	--	°C	IEC 60695-2-12
3.0 mm	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature				IEC 60695-2-13
0.40 mm	960	--	°C	IEC 60695-2-13
0.75 mm	960	--	°C	IEC 60695-2-13
1.5 mm	960	--	°C	IEC 60695-2-13
3.0 mm	960	--	°C	IEC 60695-2-13
Oxygen Index	39	--	%	ISO 4589-2
FMVSS Flammability	DNI	--		FMVSS 302

Specific Heat Capacity of Melt	2590	--	J/kg/°C	
Thermal Conductivity of Melt	0.17	--	W/m/K	
Odor	5.00	--		VDA 270
Melt Temperature, Optimum	280		°C	
Mold Temperature, Optimum	70		°C	
Drying Recommended	yes			
Hold Pressure Time	3.00		s/mm	
Maximum Screw Tangential Speed	200		mm/sec	
Fill Analysis	Dry	Conditioned	Unit	Test Method
Melt Density	1.03	--	g/cm ³	
Ejection Temperature	210	--	°C	
Injection	Dry	Unit		
Drying Temperature	80		°C	
Drying Time - Desiccant Dryer	2.0 - 4.0		hr	
Suggested Max Moisture	0.20		%	
Processing (Melt) Temp	270 - 290		°C	
Mold Temperature	50 - 90		°C	
Holding Pressure	50.0 - 100		MPa	
NOTE				
1.	Derived from Similar Grade			
2.	10°C/min			
3.	based on CTI and similar values for FR grades, Assessed			

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