

Zytel® FR7026V0F BK001

NYLON RESIN

DuPont Performance Polymers

Message:

Unreinforced, Flame Retardant, Non-Halogenated, Heat Stabilized, Polyamide 66

General Information				
UL YellowCard		E41938-234499	E41938-101927848	
Additive		heat stabilizer		
		demoulding		
		Flame retardancy		
Features		Thermal Stability		
		Halogen-free		
		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 (H 358/30)	--	110	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3800	--	MPa	ISO 527-2
Tensile Stress (Break)	80.0	--	MPa	ISO 527-2
Tensile Strain (Break)	10	--	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.0	2.0	kJ/m²	ISO 179/1eA
23°C	3.7	7.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)				ISO 179/1eU
80		110	kJ/m²	
Notched Izod Impact (23°C)				ISO 180/1A
4.4		--	kJ/m²	
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 ¹	260	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	> 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
Burning Rate ² (1.00 mm)	< 100	--	mm/min	ISO 3795
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	B	--		FMVSS 302
Specific Heat Capacity of Melt				
2590		--	J/kg/°C	

Thermal Conductivity of Melt	0.17	--	W/m/K
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
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.	10°C/min		
2.	FMVSS 302		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

