

Zytel® FR7025V0F NC010

NYLON RESIN
DuPont Performance Polymers

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

General Information			
UL YellowCard	E41938-234498		
Additive	heat stabilizer		
	demoulding		
	Flame retardancy		
Features	Thermal Stability		
	Halogen-free		
	Flame retardancy		
RoHS Compliance	Contact manufacturer		
Forms	Particle		
Processing Method	Injection molding		
Part Marking Code (ISO 11469)	>PA66-FR(30)		
Resin ID (ISO 1043)	PA66-FR(30)		
Physical	Nominal Value	Unit	Test Method
Density	1.16	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow	1.0	%	ISO 294-4
Flow	0.90	%	ISO 294-4
Water Absorption (23°C, 24 hr)	1.8	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3750	MPa	ISO 527-2
Tensile Stress (Break)	80.0	MPa	ISO 527-2
Tensile Strain (Break)	10	%	ISO 527-2
Flexural Modulus	3660	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	3.0	kJ/m ²	ISO 179/1eA
-30°C	3.0	kJ/m ²	ISO 179/1eA
23°C	3.7	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	140	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, not annealed	235	°C	ISO 75-2/B
1.8 MPa, not annealed	84.0	°C	ISO 75-2/A
Melting Temperature ¹	260	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	31	kV/mm	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	mm/min	ISO 3795
Flame Rating			UL 94, IEC 60695-11-10, -20
0.75 mm	V-0		UL 94, IEC 60695-11-10, -20
1.5 mm	V-0		UL 94, IEC 60695-11-10, -20
Oxygen Index	35	%	ISO 4589-2
FMVSS Flammability	B		FMVSS 302
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	Nominal Value	Unit	
Ejection Temperature	210	°C	
Injection	Nominal Value	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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT