

Zytel® FG408L NC010

NYLON RESIN
DuPont Performance Polymers

Message:
Unreinforced, Toughened, Polyamide 66 with Developed for Food Contact Applications

General Information				
UL YellowCard		E41938-100907543		
Additive		Mold Release		
Uses		Profiles		
Forms		Pellets		
Processing Method		Injection Molding		
		Profile Extrusion		
Part Marking Code (ISO 11469)		>PA66-I<		
Resin ID (ISO 1043)		PA66-I		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.09	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.5	--	%	
Flow	1.5	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	7.0	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.2	--	%	
Viscosity Number	150	--	cm³/g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2200	1100	MPa	ISO 527-2
Tensile Stress (Yield)	61.0	43.0	MPa	ISO 527-2
Tensile Strain (Yield)	6.0	26	%	ISO 527-2
Nominal Tensile Strain at Break	35	> 50	%	ISO 527-2
Tensile Creep Modulus				ISO 899-1
1 hr	--	950	MPa	
1000 hr	--	840	MPa	
Films	Dry	Conditioned	Unit	Test Method
Tensile Elongation - MD (Yield)	6.0	--	%	ISO 527-3
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA

-30°C	15	8.0	kJ/m ²	
23°C	15	25	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	155	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	66.0	--	°C	ISO 75-2/A
Vicat Softening Temperature	210	--	°C	ISO 306/B50
Melting Temperature ¹	263	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.3E-4	--	cm/cm/°C	
Transverse	1.3E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	34	--	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	3.20	7.00		
1 MHz	2.90	3.70		
Dissipation Factor				IEC 60250
100 Hz	0.020	0.15		
1 MHz	0.020	0.050		
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
0.750 mm	HB	--		
1.50 mm	HB	--		
Oxygen Index	19	--	%	ISO 4589-2
Fill Analysis	Dry	Conditioned	Unit	
Melt Density	0.950	--	g/cm ³	
Specific Heat Capacity of Melt	2600	--	J/kg/°C	
Thermal Conductivity of Melt	0.16	--	W/m/K	
NOTE				
1.	10°C/min			

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

