

Zytel® FG42L NC010

NYLON RESIN
DuPont Performance Polymers

Message:
Unreinforced High Viscosity Polyamide 66 with Developed for Food Contact Applications

General Information	
Additive	Mold Release
Uses	Film
	Profiles
	Sheet
Forms	Pellets
Processing Method	Casting
	Coating
	Extrusion
	Film Extrusion
	Injection Molding
	Profile Extrusion
	Sheet Extrusion

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	1.4	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	8.5	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.6	--	%	
Viscosity Number	280	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3100	1200	MPa	ISO 527-2
Tensile Stress (Yield)	83.0	52.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	27	%	ISO 527-2
Nominal Tensile Strain at Break	40	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.5	4.0	kJ/m ²	

23°C	6.0	20	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	205	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	72.0	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	70.0	--	°C	ISO 11357-2
Vicat Softening Temperature	244	--	°C	ISO 306/B50
Melting Temperature ²	262	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.0E-4	--	cm/cm/°C	
Transverse	1.0E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	31	--	kV/mm	IEC 60243-1
Relative Permittivity				IEC 60250
100 Hz	4.30	10.0		
1 MHz	3.60	4.20		
Dissipation Factor				IEC 60250
100 Hz	0.015	0.20		
1 MHz	0.015	0.075		
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification				IEC 60695-11-10, -20
3.00 mm	V-2	--		
1.50 mm	HB	--		
Oxygen Index	28	--	%	ISO 4589-2
Fill Analysis	Dry	Conditioned	Unit	
Melt Density	1.01	--	g/cm ³	
Specific Heat Capacity of Melt	2790	--	J/kg/°C	
Thermal Conductivity of Melt	0.16	--	W/m/K	
NOTE				
1.	10°C/min			
2.	10°C/min			

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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



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