

Zytel® FG151L NC010

NYLON RESIN

DuPont Performance Polymers

Message:

Unreinforced Polyamide 612 with Developed for Food Contact Applications

General Information				
UL YellowCard		E41938-100907542		
Additive		Mold Release		
		UV Stabilizer		
Forms		Pellets		
Processing Method		Injection Molding		
Part Marking Code (ISO 11469)		>PA612<		
Resin ID (ISO 1043)		PA612		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.06	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	1.3	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	3.0	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.3	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2400	1700	MPa	ISO 527-2
Tensile Stress (Yield)	62.0	54.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.5	18	%	ISO 527-2
Nominal Tensile Strain at Break	17	> 50	%	ISO 527-2
Flexural Modulus	2100	1440	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.5	3.0	kJ/m ²	
23°C	3.5	4.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	40 kJ/m ²		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	135	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	62.0	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	65.0	--	°C	ISO 11357-2
Vicat Softening Temperature	181	--	°C	ISO 306/B50
Melting Temperature ²	218	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.1E-4	--	cm/cm/°C	
Flow : -40 to 23°C	9.0E-5	--	cm/cm/°C	
Flow : 55 to 160°C	1.6E-4	--	cm/cm/°C	
Transverse	1.2E-4	--	cm/cm/°C	
Transverse : -40 to 23°C	9.0E-5	--	cm/cm/°C	
Transverse : 55 to 160°C	1.8E-4	--	cm/cm/°C	

NOTE

1. 10°C/min
2. 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

