

Zytel® FE5382 BK276

NYLON RESIN

DuPont Performance Polymers

Message:

33% Glass Reinforced Polyamide 612 Developed for Electrical and Electronics Applications

General Information				
UL YellowCard		E41938-234364		
Filler / Reinforcement		Glass Fiber,33% Filler by Weight		
Additive		Heat Stabilizer		
		Lubricant		
		Mold Release		
Features		Heat Stabilized		
		Lubricated		
Agency Ratings		UL Unspecified Rating		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Shear Stress vs. Shear Rate (ISO 11403-1)		
		Specific Volume vs Temperature (ISO 11403-2)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA612-GF33<		
Resin ID (ISO 1043)		PA612-GF33		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183
Molding Shrinkage				
Flow : 3.20 mm	0.30	--	%	Internal Method
Across Flow : 3.20 mm	1.0	--	%	Internal Method
Across Flow	0.90	--	%	ISO 294-4
Flow	0.30	--	%	ISO 294-4
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	1.8	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.70	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9800	--	MPa	ISO 527-2
Tensile Stress				
Break	170	--	MPa	ISO 527-2

23°C	--	131	MPa	ASTM D638
Tensile Elongation				
Break, 23°C	--	3.0	%	ASTM D638
Break	2.5	--	%	ISO 527-2
Flexural Modulus				
23°C	--	6210	MPa	ASTM D790
--	8400	--	MPa	ISO 178
Flexural Strength (23°C)	--	193	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	10	--	kJ/m ²	
23°C	12	--	kJ/m ²	
Notched Izod Impact				
23°C	--	110	J/m	ASTM D256
-40°C	10	--	kJ/m ²	ISO 180/1A
23°C	11	--	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	--	960	J/m	ASTM D4812
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	216	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	--	°C	ISO 75-2/A
Melting Temperature ¹	218	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	
Transverse	1.1E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
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	--		
Fill Analysis	Dry	Conditioned	Unit	
Melt Density	1.12	--	g/cm ³	
Specific Heat Capacity of Melt	2130	--	J/kg/°C	
Thermal Conductivity of Melt	0.26	--	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

