

Zytel® FN727 NC010A

NYLON RESIN
DuPont Performance Polymers

Message:

Toughened Polyamide 6

General Information			
Additive	Heat Stabilizer		
Features	Heat Stabilized		
Uses	Blow Molding Applications		
	Film		
	Profiles		
	Sheet		
Forms	Pellets		
Processing Method	Blow Molding		
	Coating		
	Extrusion		
	Film Extrusion		
	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		
Multi-Point Data	Shear Modulus vs. Temperature (ISO 11403-1)		
	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)	>PA6-F<		
Resin ID (ISO 1043)	PA6-F		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.2	%	
Flow	0.80	%	
Viscosity Number	55.0	cm ³ /g	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	900	MPa	ISO 527-2
Tensile Stress (50% Strain)	30.0	MPa	ISO 527-2
Tensile Strain (Break)	> 50	%	ISO 527-2

Flexural Modulus	880	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	140	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength (23°C)	No Break		ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	55.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	48.0	°C	ISO 75-2/A
Glass Transition Temperature ¹	60.0	°C	ISO 11357-2
Melting Temperature ²	221	°C	ISO 11357-3
Fill Analysis	Nominal Value	Unit	
Melt Density	0.870	g/cm ³	
Specific Heat Capacity of Melt	2700	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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