

Zytel® ST7301 NC010

NYLON RESIN
DuPont Performance Polymers

Message:
Super Toughened Polyamide 6

General Information				
Additive	Heat Stabilizer			
	Lubricant			
	Mold Release			
Features	Heat Stabilized			
	Lubricated			
Uses	Film			
	Profiles			
	Sheet			
Forms	Pellets			
Processing Method	Casting			
	Coating			
	Extrusion			
	Film Extrusion			
	Injection Molding			
	Profile Extrusion			
	Sheet Extrusion			
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)			
	Secant Modulus vs. Strain (ISO 11403-1)			
Part Marking Code (ISO 11469)	>PA6-HI<			
Resin ID (ISO 1043)	PA6-HI			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.06	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Across Flow : 80°C, 48 hr	0.10	--	%	
Flow	1.0	--	%	
Flow : 80°C, 48 hr	0.10	--	%	
Viscosity Number	150	--	cm ³ /g	ISO 307

Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	95.0	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1800	550	MPa	ISO 527-2
Tensile Stress (Yield)	48.0	29.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	30	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	> 50	%	ISO 527-2
Flexural Modulus	1700	550	MPa	ISO 178
Flexural Stress (3.5% Strain)	53.0	32.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	18	17	kJ/m ²	
-30°C	17	18	kJ/m ²	
23°C	80	120	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Notched Izod Impact Strength				ISO 180/1A
-40°C	15	13	kJ/m ²	
-30°C	14	15	kJ/m ²	
23°C	59	95	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	95.0	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	51.0	--	°C	ISO 75-2/A
Melting Temperature ¹	221	--	°C	ISO 11357-3
NOTE				
1.	10°C/min			

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