

Zytel® ST7301 BK356

NYLON RESIN
DuPont Performance Polymers

Message:
Super Toughened Polyamide 6

General Information				
Uses	Film			
	Profiles			
	Sheet			
Processing Method	Casting			
	Coating			
	Extrusion			
	Film Extrusion			
	Injection Molding			
	Profile Extrusion			
	Sheet Extrusion			
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	1.3	--	%	
Flow	1.3	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1800	550	MPa	ISO 527-2
Tensile Stress (Yield)	48.0	30.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.0	33	%	ISO 527-2
Nominal Tensile Strain at Break	45	> 50	%	ISO 527-2
Flexural Modulus	1800	610	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	16	14	kJ/m ²	
-30°C	17	18	kJ/m ²	
23°C	77	120	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A

-40°C	13	12	kJ/m ²	
-30°C	16	15	kJ/m ²	
23°C	57	95	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	88.0	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	45.0	--	°C	ISO 75-2/A
Melting Temperature ¹	221	--	°C	ISO 11357-3
NOTE				
1.	10°C/min			

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