

Zytel® LC6200 BK385

NYLON RESIN
DuPont Performance Polymers

Message:
Toughened Polyamide 612 Developed for Extrusion

General Information				
Additive	Heat Stabilizer			
Features	Heat Stabilized			
Uses	Film			
	Profiles			
	Sheet			
Forms	Pellets			
Processing Method	Extrusion			
	Film Extrusion			
	Profile Extrusion			
	Sheet Extrusion			
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)			
	Secant Modulus vs. Strain (ISO 11403-1)			
	Shear Stress vs. Shear Rate (ISO 11403-1)			
	Specific Volume vs Temperature (ISO 11403-2)			
	Tensile Modulus vs. Temperature (ISO 11403-1)			
	Viscosity vs. Shear Rate (ISO 11403-2)			
Part Marking Code (ISO 11469)	>PA612-HI<			
Resin ID (ISO 1043)	PA612-HI			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.00	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	2.8	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1080	720	MPa	ISO 527-2
Tensile Stress (Yield)	30.0	28.0	MPa	ISO 527-2
Tensile Strain (Yield)	20	30	%	ISO 527-2
Nominal Tensile Strain at Break	> 50	> 50	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	15	kJ/m ²	
23°C	40	80	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	13	13	kJ/m ²	
23°C	27	66	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	85.0	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	46.0	--	°C	ISO 75-2/A
Melting Temperature ¹	218	--	°C	ISO 11357-3
Fill Analysis	Dry	Conditioned	Unit	
Melt Density	0.820	--	g/cm ³	
Specific Heat Capacity of Melt	2700	--	J/kg/°C	
Thermal Conductivity of Melt	0.17	--	W/m/K	
NOTE				
1.	10°C/min			

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