

# DuPont™ Zytel®

nylon resin

## Zytel® 450HSLX BK152

Zytel® 450HSLX is a heat stabilized, lubricated, medium toughened polyamide 66 for injection molding. It has high impact resistance at low temperature and dry as molded.

Property	Test Method	Units	Value	
			DAM	50%RH
<b>Mechanical</b>				
Yield Stress	ISO 527	MPa (kpsi)	54 (7.8)	38 (5.5)
Strain at Break	ISO 527	%	50	>100
Nominal Strain at Break	ISO 527	%	32	>50
Yield Strain	ISO 527	%	4.7	30
Tensile Modulus	ISO 527	MPa (kpsi)	2200 (320)	980 (142)
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m <sup>2</sup>		
-30°C (-22°F)			9	7.5
23°C (73°F)			17	85
<b>Thermal</b>				
Deflection Temperature	ISO 75f	°C (°F)		
0.45MPa			210 (410)	
1.80MPa			63 (145)	
Melting Temperature	ISO 11357-1/-3	°C (°F)		
10°C/min			263 (505)	
<b>Other</b>				
Density	ISO 1183	kg/m <sup>3</sup> (g/cm <sup>3</sup> )	1090 (1.09)	
Molding Shrinkage	ISO 294-4	%		
Parallel, 4.0mm			1.7	

Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc.

ISO Mechanical properties measured at 4.0mm, ISO Electrical properties measured at 2.0mm, and all ASTM properties measured at 3.2mm.

Test temperatures are 23°C unless otherwise stated.

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Property	Test Method	Units	Value	
			DAM	50%RH
<b>Processing</b>				
Melt Temperature Range		°C (°F)	280-300 (535-570)	
Melt Temperature Optimum		°C (°F)	290 (555)	
Mold Temperature Range		°C (°F)	50-90 (120-190)	
Mold Temperature Optimum		°C (°F)	70 (160)	
Drying Time, Dehumidified Dryer		h	2-4	
Drying Temperature		°C (°F)	80 (175)	
Processing Moisture Content		%	<0.20	

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