

Zytel® 157HSL BK010

NYLON RESIN
DuPont Performance Polymers

Message:
Unreinforced, Heat Stabilized, Polyamide 612

General Information				
UL YellowCard		E41938-234357		
Additive		Heat Stabilizer		
		Mold Release		
Features		Heat Stabilized		
Forms		Pellets		
Processing Method		Injection Molding		
Multi-Point Data		Shear Stress vs. Shear Rate (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA612<		
Resin ID (ISO 1043)		PA612		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.07	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	1.3	--	%	
Viscosity Number ¹	115	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2500	1500	MPa	ISO 527-2
Tensile Stress (Yield)	65.0	53.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.4	18	%	ISO 527-2
Nominal Tensile Strain at Break	22	> 50	%	ISO 527-2
Flexural Modulus	2300	1500	MPa	ISO 178
Flexural Stress	80.0	44.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Notched Izod Impact Strength (23°C)	4.0	--	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	62.0	--	°C	ISO 75-2/A
Melting Temperature ²	218	--	°C	ISO 11357-3
Flammability	Dry	Conditioned		Test Method
Flammability Classification				IEC 60695-11-10, -20
0.860 mm	HB	--		
1.50 mm	HB	--		
NOTE				
1.	Interpolated			
2.	10°C/min			

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