

Zytel® RS 3061HSL BK039A

RENEWABLY SOURCED™ POLYAMIDES*

DuPont Performance Polymers

Message:

Unreinforced, Renewably Sourced, Polyamide 610 Developed for Injection Molding

General Information				
Additive	Heat Stabilizer			
	Lubricant			
	Mold Release			
	UV Stabilizer			
Features	Heat Stabilized			
	Lubricated			
Forms	Pellets			
Processing Method	Injection Molding			
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)			
	Tensile Modulus vs. Temperature (ISO 11403-1)			
	Tensile Modulus vs. Temperature, Dynamic (ISO 11403-1)			
	Viscosity vs. Shear Rate (ISO 11403-2)			
Part Marking Code (ISO 11469)	>PA610<			
Resin ID (ISO 1043)	PA610			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.08	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	1.2	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	3.8	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.7	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2400	1380	MPa	ISO 527-2
Tensile Stress (Yield)	65.0	55.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.5	25	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength (23°C)	4.7	8.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	34	--	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength (23°C)	4.0	6.3	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	140	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	60.0	--	°C	ISO 11357-2
Melting Temperature ²	223	--	°C	ISO 11357-3
NOTE				
1.	10°C/min			
2.	10°C/min			

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