

Zytel® RS LC1010 NC010

RENEWABLY SOURCED™ POLYAMIDES*

DuPont Performance Polymers

Message:

Unreinforced, Renewably Sourced, Polyamide 1010 Developed for Extrusion

General Information				
Uses		Profiles		
Forms		Pellets		
Processing Method		Extrusion		
		Profile Extrusion		
Multi-Point Data		Isothermal Stress vs. Strain (ISO 11403-1)		
		Secant Modulus vs. Strain (ISO 11403-1)		
		Shear Modulus vs. Temperature (ISO 11403-1)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
Part Marking Code (ISO 11469)		>PA1010<		
Resin ID (ISO 1043)		PA1010		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.05	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	1.4	--	%	
Water Absorption (Equilibrium, 23°C, 2.00 mm, 50% RH)	1.1	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1800	950	MPa	ISO 527-2
Tensile Stress (Yield)	52.0	43.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.5	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	8.0	4.0	kJ/m ²	
23°C	5.0	15	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
-30°C	6.0	4.0	kJ/m ²	
23°C	4.5	12	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	120	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	52.0	--	°C	ISO 75-2/A
Glass Transition Temperature ¹				
	50.0	--	°C	ISO 11357-2
Melting Temperature ²				
	202	--	°C	ISO 11357-3
Fill Analysis	Dry	Conditioned	Unit	Test Method
Melt Viscosity (250°C, 1000 sec ⁻¹)				
	230	--	Pa·s	ISO 11443
NOTE				
1.	10°C/min			
2.	10°C/min			

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