

Zytel® RS LC3090 NC010

RENEWABLY SOURCED™ POLYAMIDES*

DuPont Performance Polymers

Message:

Unreinforced, Renewably Sourced, High Viscosity Polyamide 610 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)		
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				
24 hr	0.58	--	%	ASTM D570
23°C, 24 hr, 2.00 mm	3.3	--	%	ISO 62
Equilibrium, 23°C, 2.00 mm, 50% RH	1.4	--	%	ISO 62
Viscosity Number	170	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2300	1200	MPa	ISO 527-2
Flexural Modulus	1900	--	MPa	ISO 178
Flexural Stress	86.0	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.6	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	--		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	151	--	°C	ISO 75-2/B

1.8 MPa, Unannealed	54.0	--	°C	ISO 75-2/A
Melting Temperature ¹	225	--	°C	ISO 11357-3
NOTE				
1.	10°C/min			

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