

Zytel® RS LC1600 NC010

RENEWABLY SOURCED™ POLYAMIDES*

DuPont Performance Polymers

Message:

Plasticized, Toughened, UV Stabilized, Renewably Sourced, Polyamide 1010 Developed for Extrusion

General Information				
Additive	Heat Stabilizer			
	Plasticizer			
	UV Stabilizer			
Features	Heat Stabilized			
	Plasticized			
Uses	Film			
	Profiles			
	Sheet			
Forms	Pellets			
Processing Method	Casting			
	Coating			
	Extrusion			
	Film Extrusion			
	Profile Extrusion			
	Sheet Extrusion			
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)			
	Secant Modulus vs. Strain (ISO 11403-1)			
	Tensile Modulus vs. Temperature (ISO 11403-1)			
Part Marking Code (ISO 11469)	>PA1010-HIP<			
Resin ID (ISO 1043)	PA1010-HIP			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.04	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	2.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	590	420	MPa	ISO 527-2
Tensile Stress (50% Strain)	29.0	27.0	MPa	ISO 527-2

Tensile Strain				
Break	> 50	> 50	%	ISO 527-2
Break, 23°C	200	200	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	11	kJ/m ²	
23°C, Partial Break	120	120	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ¹	197	--	°C	ISO 11357-3
Flammability	Dry	Conditioned		Test Method
Flammability Classification				IEC 60695-11-10, -20
1.50 mm	HB	--		
3.00 mm	HB	--		
Fill Analysis	Dry	Conditioned	Unit	Test Method
Melt Viscosity (250°C, 1000 sec ⁻¹)	260	--	Pa·s	ISO 11443
NOTE				
1.	10°C/min			

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