

Zytel® RS LC1610 BK387

RENEWABLY SOURCED™ POLYAMIDES*

DuPont Performance Polymers

Message:

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

General Information				
Additive		Heat Stabilizer		
		Plasticizer		
		UV Stabilizer		
Features		Heat Stabilized		
		Plasticized		
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 Stress vs. Shear Rate (ISO 11403-1)		
		Tensile Modulus vs. Temperature (ISO 11403-1)		
		Viscosity vs. Shear Rate (ISO 11403-2)		
Part Marking Code (ISO 11469)		>PA1010-IP<		
Resin ID (ISO 1043)		PA1010-IP		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.05	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	1.6	--	%	
Water Absorption				ISO 62
23°C, 24 hr, 2.00 mm	1.5	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	0.75	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	790	570	MPa	ISO 527-2
Tensile Stress (Yield)	35.0	33.0	MPa	ISO 527-2
Tensile Strain (Yield)	32	39	%	ISO 527-2

Nominal Tensile Strain at Break	> 50	> 50	%	ISO 527-2
Flexural Stress				ISO 178
3.5% Strain	24.0	19.0	MPa	
--	24.0	19.0	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	6.0	kJ/m ²	
23°C	24	34	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Notched Izod Impact Strength				ISO 180/1A
-30°C	6.0	5.5	kJ/m ²	
23°C	24	35	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	110	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	46.0	--	°C	ISO 75-2/A
Melting Temperature ¹	197	--	°C	ISO 11357-3
Freezing Point ²	175	--	°C	ISO 11357
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)	210	--	Pa·s	ISO 11443
NOTE				
1.	10°C/min			
2.	10°C/min			

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