

Zytel® RS LC1000 BK385

RENEWABLY SOURCED™ POLYAMIDES*

DuPont Performance Polymers

Message:

UV Stabilized, Renewably Sourced, Polyamide 1010 Developed for Extrusion

General Information				
Additive		Heat Stabilizer		
		UV Stabilizer		
Features		Heat Stabilized		
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)		
		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	0.80	--	%	
Flow	1.4	--	%	
Water Absorption (Equilibrium, 23°C, 2.00 mm, 50% RH)	1.0	--	%	ISO 62
Viscosity Number	130	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2100	1160	MPa	ISO 527-2
Tensile Stress (Yield)	60.0	49.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.6	24	%	ISO 527-2
Nominal Tensile Strain at Break	50	> 50	%	ISO 527-2
Flexural Modulus	1740	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA

-30°C	8.0	5.0	kJ/m²	
23°C	5.0	10	kJ/m²	
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	203	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.1E-4	--	cm/cm/°C	
Transverse	1.2E-4	--	cm/cm/°C	
Flammability	Dry	Conditioned		Test Method
Flammability Classification			IEC 60695-11-10, -20	
1.50 mm	HB	--		
3.00 mm	HB	--		
NOTE				
1.	10°C/min			

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