

Zytel® RS LC1201 BK040A

RENEWABLY SOURCED™ POLYAMIDES*

DuPont Performance Polymers

Message:

Toughened, Renewably Sourced, Medium Viscosity Polyamide 1010 Developed for Extrusion

General Information				
Additive	Heat Stabilizer			
Features	Heat Stabilized			
Uses	Profiles			
	Sheet			
Forms	Pellets			
Processing Method	Calendering			
	Casting			
	Coating			
	Extrusion			
	Profile Extrusion			
	Sheet Extrusion			
Part Marking Code (ISO 11469)	>PA1010-I<			
Resin ID (ISO 1043)	PA1010-I			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.04	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	1.2	--	%	
Viscosity Number (H2SO4 (Sulphuric Acid))	108	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1500	930	MPa	ISO 527-2
Tensile Stress (Yield)	45.0	40.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	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	11	8.0	kJ/m ²	
23°C	16	25	kJ/m ²	

Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Notched Izod Impact Strength				ISO 180/1A
-30°C	9.0	8.0	kJ/m ²	
23°C	13	25	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	85.0	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	47.0	--	°C	ISO 75-2/A
Melting Temperature ¹	201	--	°C	ISO 11357-3
Freezing Point ²	179	--	°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)	215	--	Pa·s	ISO 11443
NOTE				
1.	10°C/min			
2.	10°C/min			

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