

Zytel® RS LC4601 BK010

RENEWABLY SOURCED™ POLYAMIDES*

DuPont Performance Polymers

Message:

Plasticized, Toughened, Renewably Sourced, Polyamide Developed for Extrusion

General Information				
Additive	heat stabilizer			
	Plasticizer			
Features	Plasticized			
	Updatable resources			
	Thermal Stability			
RoHS Compliance	Contact manufacturer			
Forms	Particle			
Processing Method	Film extrusion			
	Extrusion			
	Casting			
	Sheet extrusion molding			
	Coating			
	Profile extrusion molding			
Multi-Point Data	Shear Stress vs. Shear Rate (ISO 11403-1)			
	Viscosity vs. Shear Rate (ISO 11403-2)			
Part Marking Code (ISO 11469)	>PA-IP			
Resin ID (ISO 1043)	PA-IP			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.03	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	1.3	--	%	ISO 294-4
Flow	1.6	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 2.00 mm, 50% RH)	1.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	750	470	MPa	ISO 527-2
Tensile Stress (50% Strain)	33.0	25.0	MPa	ISO 527-2
Tensile Strain				
Fracture	> 50	> 50	%	ISO 527-2

Fracture, 23°C	300	--	%	ISO 527-2/50
Flexural Modulus	720	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	16	--	kJ/m ²	ISO 179/1eA
23°C	100	--	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		ISO 179/1eU
23°C	No Break	--		ISO 179/1eU
Notched Izod Impact				ISO 180/1A
-40°C	15	--	kJ/m ²	ISO 180/1A
23°C	84	--	kJ/m ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	53.0	--	°C	ISO 75-2/B
1.8 MPa, not annealed	40.0	--	°C	ISO 75-2/A
Glass Transition Temperature ¹	50.0	30.0	°C	ISO 11357-2
Melting Temperature ²	213	--	°C	ISO 11357-3
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ³ (1.00 mm)	< 100	--	mm/min	ISO 3795
FMVSS Flammability	B	--		FMVSS 302
Extrusion Melt Temperature, Optimum	235		°C	
Fill Analysis	Dry	Conditioned	Unit	Test Method
Melt Viscosity (280°C, 1000 sec ⁻¹)	190000	--	mPa·s	ISO 11443
Extrusion	Dry	Unit		
Drying Temperature	75 - 80		°C	
Drying Time	3.0 - 4.0		hr	
Suggested Max Moisture	0.060		%	
Melt Temperature	230 - 245		°C	
NOTE				
1.	10°C/min			
2.	10°C/min			
3.	FMVSS 302			

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

