Zytel® RS LC3060 NC010

PA610 Celanese

Product Texts

Zytel® RS LC3060 NC010 is an unreinforced, medium viscosity, biobased polyamide 610 resin containing a minimum of 60% renewably sourced ingredients by weight, developed for extrusion applications.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**1.4 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.5 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2000 / 1200**	MPa	ISO 527
[C] Yield stress	**64 / 52**	MPa	ISO 527
[C] Yield strain	**5 / 30**	%	ISO 527
[C] Nominal strain at break	**>50 / >50**	%	ISO 527
[C] Charpy notched impact strength, +23°C	**8 / -**	kJ/m²	ISO 179/1eA
[C] Abrasion resistance	**5.5 / ***	mm³	ISO 4649

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**223 / ***	°C	ISO 11357-1/-3
[C] Glass transition temperature, 10°C/min	**60 / ***	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	**55 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**155 / ***	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**90 / ***	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**150 / ***	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB / ***	class	IEC 60695-11-10
Thickness tested	**1.5 / ***	mm	-
[C] Burning Behav. at thickness h	**HB / ***	class	IEC 60695-11-10
Thickness tested	**3.0 / ***	mm	-
[C] Oxygen index	**24 / ***	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Relative permittivity, 100Hz	**3.9 / -**	-	IEC 62631-2-1
[C] Relative permittivity, 1MHz	**3.3 / -**	-	IEC 62631-2-1
[C] Dissipation factor, 100Hz	**400 / -**	E-4	IEC 62631-2-1
[C] Dissipation factor, 1MHz	**300 / -**	E-4	IEC 62631-2-1
[C] Volume resistivity	**1E13 / 1E9**	Ohm*m	IEC 62631-3-1
[C] Comparative tracking index	**600 / 600**	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**3.3 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**1.4 / ***	%	Sim. to ISO 62
[C] Density	**1070 / -**	kg/m³	ISO 1183
Biobased content	**60**	%	-

[C]: CAMPUS

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Viscosity number	**150 / ***	cm³/g	ISO 307, 1157, 1628

[C]: CAMPUS

Characteristics

Processing
Injection Molding, Profile Extrusion, Sheet Extrusion, Other Extrusion

Delivery form
Pellets, Natural Color

Certifications
Contains renewable resources

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa