

**Product Texts**

Zytel® LCPA long chain polyamide resins provide an innovative and growing portfolio of flexible polymers with excellent thermal, chemical, and hydrolysis resistance. The diverse selection of Zytel® LCPA grades is targeted for a range of performance characteristics, balancing temperature resistance, flexibility and low permeation.

Zytel® RS LCPA resins contain between 20% and 100% renewably sourced material (by weight) derived from castor beans.

**Zytel® RS LC3090 NC010 is a renewable sourced polyamide 610 containing a minimum of 60% renewably sourced ingredient by weight. It is an unreinforced, high viscosity grade, developed for extrusion applications.**

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	1.2 / *	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	1.2 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	2300 / 1200	MPa	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	N / -	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	5.6 / -	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	225 / *	°C	ISO 11357-1/-3
<sup>[C]</sup> Glass transition temperature, 10°C/min	60 / *	°C	ISO 11357-1/-2
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	54 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	151 / *	°C	ISO 75-1/-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	3.3 / *	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	1.4 / *	%	Sim. to ISO 62
<sup>[C]</sup> Density	1080 / -	kg/m <sup>3</sup>	ISO 1183
Biobased content	60	%	-

[C]: CAMPUS

Material specific properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Viscosity number	170 / *	cm <sup>3</sup> /g	ISO 307, 1157, 1628

[C]: CAMPUS

**Characteristics**

**Processing**  
Injection Molding, Profile Extrusion, Other Extrusion

**Chemical Resistance**  
General Chemical Resistance, Hydrolytically Stable

**Delivery form**  
Pellets, Natural Color

**Certifications**  
Contains renewable resources

**Special Characteristics**  
Heat stabilized or stable to heat

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