

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® LC6210 BK010 is a toughened polyamide 612 resin for extrusion applications.

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	1100 / 750	MPa	ISO 527
^[C] Yield stress	33 / 29	MPa	ISO 527
^[C] Yield strain	12 / 30	%	ISO 527
^[C] Nominal strain at break	>50 / >50	%	ISO 527
^[C] Charpy notched impact strength, +23°C	35 / 80	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	13 / 12	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	216 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	47 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	83 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	250 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	120 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Humidity absorption	0.65 / *	%	Sim. to ISO 62
^[C] Density	1010 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding, Profile Extrusion, Other Extrusion

Delivery form

Pellets

Special Characteristics

U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Chemical Resistance

General Chemical Resistance, Hydrolytically Stable

Regional Availability

North America, Europe, Asia Pacific, South and Central America