

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® LC6200 BK385 is a toughened polyamide 612 resin for extrusion applications.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	2.9 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577
^[C] Density of melt	820	kg/m ³	-
^[C] Thermal conductivity of melt	0.17	W/(m K)	-
^[C] Spec. heat capacity of melt	2690	J/(kg K)	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	1080 / 720	MPa	ISO 527
^[C] Yield stress	32.2 / 29.2	MPa	ISO 527
^[C] Yield strain	13 / 22	%	ISO 527
^[C] Charpy notched impact strength, +23°C	40 / 80	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	15 / 15	kJ/m ²	ISO 179/1eA
^[C] Abrasion resistance	12 / *	mm ³	ISO 4649

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	218 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	46 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	85 / *	°C	ISO 75-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	>1E13 / -	Ohm*m	IEC 62631-3-1
^[C] Surface resistivity	* / >1E15	Ohm	IEC 62631-3-2
^[C] Electric strength	34 / -	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Humidity absorption	0.7 / *	%	Sim. to ISO 62
^[C] Density	1000 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Other Extrusion

Delivery form

Pellets

Special Characteristics

Heat stabilized or stable to heat

Chemical Resistance

General Chemical Resistance, Hydrolytically Stable

Regional Availability

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