

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® 77G33EFT BK276 is a 33% glass fiber reinforced, heat stabilized and toughened polyamide 612 resin developed for electrical bobbins and encapsulation applications.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577
^[C] Ejection temperature	210	°C	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	9600 / 8500	MPa	ISO 527
^[C] Stress at break	165 / 143	MPa	ISO 527
^[C] Strain at break	3 / 3.5	%	ISO 527
^[C] Charpy impact strength, +23°C	88 / 81	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	18 / 17	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	218 / *	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	70 / *	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	203 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	215 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	23 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	130 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	1E13 / 1E13	Ohm*m	IEC 62631-3-1
^[C] Electric strength	41 / 41	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.7 / *	%	Sim. to ISO 62
^[C] Humidity absorption	0.8 / *	%	Sim. to ISO 62
^[C] Density	1300 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Material specific properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Viscosity number	96 / *	cm ³ /g	ISO 307, 1157, 1628

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Applications

Electrical and Electronical, Encapsulation

Delivery form

Pellets, Black

Regional Availability

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

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Other text information

Injection molding

[Moulding guide](#)