

Zytel® LC6601 BK551

LONG CHAIN POLYAMIDE RESIN

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® LC6601 BK551 is a toughened, polyamide 612 resin plasticized for improved flexibility in extrusion applications.

Product information

Resin Identification	PA612-IP	ISO 1043
Part Marking Code	>PA612-IP<	ISO 11469
ISO designation	ISO 16396-PA612-I,,M1CG1H,S18-007	

Typical mechanical properties

	dry/cond.		
Yield stress, 50mm/min	32 / -	MPa	ISO 527-1/-2
Yield strain, 50mm/min	32 / -	%	ISO 527-1/-2
Nominal strain at break	>50 / -	%	ISO 527-1/-2
Strain at break, 50mm/min	200 / -	%	ISO 527-1/-2
Flexural Modulus	850 / -	MPa	ISO 178

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	215 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	45 / *	°C	ISO 75-1/-2

Flammability

FMVSS Class	B	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	<80 mm/min	ISO 3795 (FMVSS 302)

Other properties

	dry/cond.		
Density	1020 / -	kg/m³	ISO 1183

Extrusion

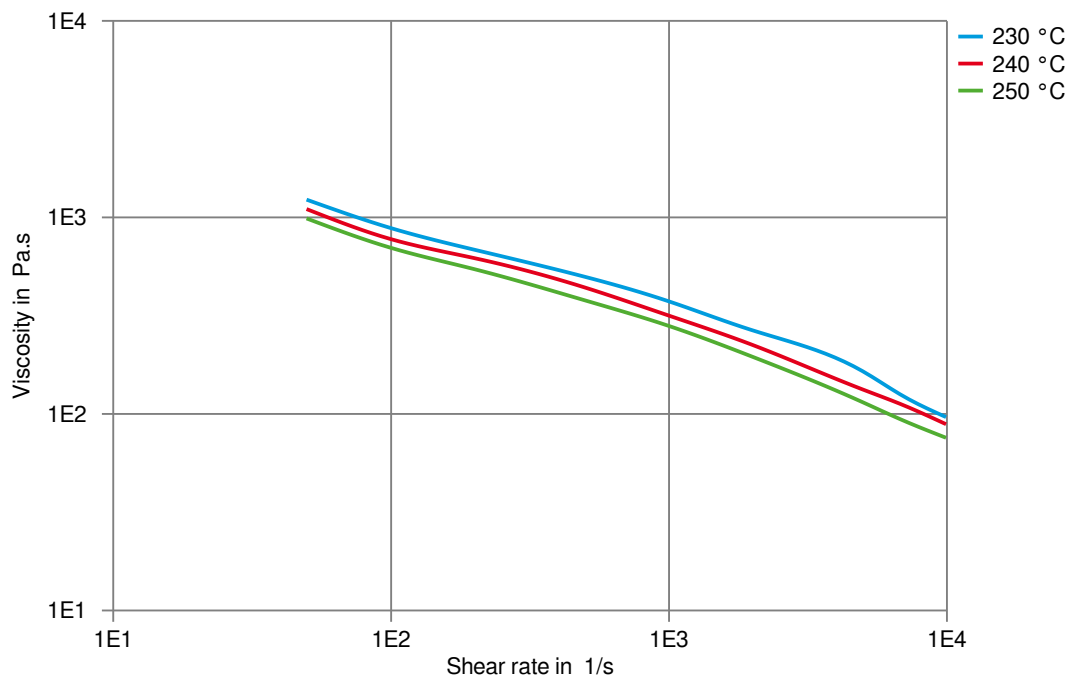
Drying Temperature	75 - 80 °C
Drying Time, Dehumidified Dryer	3 - 4 h
Processing Moisture Content	≤0.06 %
Melt Temperature Optimum	240 °C
Melt Temperature Range	230 - 245 °C



Zytel® LC6601 BK551

LONG CHAIN POLYAMIDE RESIN

Viscosity-shear rate



Zytel® LC6601 BK551

LONG CHAIN POLYAMIDE RESIN

Shearstress-shear rate

