

DuPont™ Zytel® LC6159 BK554

NYLON RESIN

Product Information

DuPont™ 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® LC6159 BK554 is an unreinforced, heat stabilized, high viscosity polyamide 612.

General information	Value	Unit	Test Standard
Resin Identification	PA612	-	ISO 1043
Part Marking Code	PA612	-	ISO 11469
Rheological properties	dry / cond	Unit	Test Standard
Viscosity number	160 / *	cm ³ /g	ISO 307, 1157, 1628
Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	2400 / -	MPa	ISO 527-1/-2
Yield stress	65 / -	MPa	ISO 527-1/-2
Yield strain	4.3 / -	%	ISO 527-1/-2
Stress at Break, 23°C, 50mm/min	40 / -	MPa	ISO 527-1/-2
Strain at Break, 23°C, 50mm/min	50 / -	%	ISO 527-1/-2
Charpy notched impact strength, 73°F	5 / -	kJ/m ²	ISO 179/1eA
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature, 18°F/min	216 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 65 psi	150 / *	°C	ISO 75-1/-2
Flammability	Value	Unit	Test Standard
FMVSS Class	B	-	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	<100	mm/min	ISO 3795 (FMVSS 302)
Other properties	dry / cond	Unit	Test Standard
Density	1060 / -	kg/m ³	ISO 1183
Injection	Value	Unit	Test Standard
Drying Recommended	yes	-	-
Drying Temperature	≥80	°C	-
Drying Time, Dehumidified Dryer	2 - 4	h	-
Processing Moisture Content	≤0.15	%	-
Min. melt temperature	230	°C	-
Max. melt temperature	290	°C	-
Min. mold temperature	50	°C	-
Max. mold temperature	90	°C	-
Annealing time, optional	30	min/mm	-
Annealing temperature	150	°C	-
Extrusion	Value	Unit	Test Standard
Drying Temperature	75 - 80	°C	-
Drying Time, Dehumidified Dryer	3 - 4	h	-
Processing Moisture Content	≤0.06	%	-
Melt Temperature Range	230 - 245	°C	-

Characteristics

Processing	<ul style="list-style-type: none"> • Injection Molding • Film Extrusion • Profile Extrusion 	<ul style="list-style-type: none"> • Sheet Extrusion • Other Extrusion • Coating 	<ul style="list-style-type: none"> • Casting
Delivery form	<ul style="list-style-type: none"> • Pellets 		
Special characteristics	<ul style="list-style-type: none"> • Heat stabilized or stable to heat 		
Regional Availability	<ul style="list-style-type: none"> • North America • Europe 	<ul style="list-style-type: none"> • Asia Pacific • South and Central America 	<ul style="list-style-type: none"> • Near East/Africa • Global

To find out more, visit [DuPont Performance Polymers](#) or contact nearest DuPont location.

North America

Asia Pacific

Europe/Middle East/Africa

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Contact DuPont for Material Safety Data Sheet, general guides and/or additional information about ventilation, handling, purging, drying, etc. ISO Mechanical properties measured at 160 mil (Hytrel® measured at 80 mil), IEC Electrical properties measured at 80 mil, all ASTM properties measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

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North America

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