

DuPont™ Zytel® LC7602 BK010A (Preliminary Data)

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® LC7602 BK010A is a flexible, toughened and plasticized black polyamide resin intended for extrusion applications.

General information	Value	Unit	Test Standard
Resin Identification	PA-HIP	-	ISO 1043
Part Marking Code	PA-HIP	-	ISO 11469
Rheological properties	dry / cond	Unit	Test Standard
Melt mass-flow rate	12 / *	g/10min	ISO 1133
Melt mass-flow rate, Temperature	240 / *	°C	ISO 1133
Melt mass-flow rate, Load	5 / *	kg	ISO 1133
Viscosity number 1: in sulphuric acid 96%	144 ⁽¹⁾ / *	cm ³ /g	ISO 307, 1157, 1628
Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	650 / -	MPa	ISO 527-1/-2
Stress at 50% strain	26 / -	MPa	ISO 527-1/-2
Strain at break	>50 / -	%	ISO 527-1/-2
Flexural Modulus	620 / -	MPa	ISO 178
Charpy impact strength			ISO 179/1eU
73°F	N / N	kJ/m ²	
-22°F	N / -	kJ/m ²	
Charpy notched impact strength			ISO 179/1eA
73°F	105 / -	kJ/m ²	
-40°F	15 / -	kJ/m ²	
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature, 18°F/min	208 / *	°C	ISO 11357-1/-3
Glass transition temperature, 18°F/min	50 / 40	°C	ISO 11357-1/-2
Temp. of deflection under load			ISO 75-1/-2
260 psi	39 / *	°C	
65 psi	55 / *	°C	
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	1030 / -	kg/m ³	ISO 1183
Extrusion	Value	Unit	Test Standard
Drying Temperature	75 - 80	°C	-
Drying Time, Dehumidified Dryer	3 - 4	h	-
Processing Moisture Content	≤0.06	%	-
Melt Temperature Optimum	225	°C	-
Melt Temperature Range	220 - 230	°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 		
Additives	<ul style="list-style-type: none"> • Plasticizer 		
Special characteristics	<ul style="list-style-type: none"> • Light stabilized or stable to light 	<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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Chemical Media Resistance

Other

- ✓ Ethylene Glycol (50% by mass) in water (108°C)
- ✓ Coolant Glycantin G48, 1:1 in water (125°C)

Symbols used:

- ✓ possibly resistant

Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the intended use conditions and expected service life. Criteria for assessment have to be indicated (e.g. surface aspect, volume change, property change).

- ✗ not recommended - see explanation

Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions could be acceptable (e.g. fast cleaning with thorough rinsing, spills, wiping, vapor exposure).

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

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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