

DuPont™ Zytel® RS LC2800 NC010

NYLON RESIN

Product Information

Zytel® RS LC2800 NC010 is an unreinforced, plasticized, biobased polyamide resin developed for extrusion applications such as fuel lines.

General information	Value	Unit	Test Standard
Resin Identification	PA-P	-	ISO 1043
Part Marking Code	PA-P	-	ISO 11469
Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	550 / -	MPa	ISO 527-1/-2
Stress at Break, 23°C, 50mm/min	53 / -	MPa	ISO 527-1/-2
Strain at Break, 23°C, 50mm/min	250 / -	%	ISO 527-1/-2
Charpy notched impact strength, 73°F	16 / -	kJ/m ²	ISO 179/1eA
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature, 18°F/min	220 / *	°C	ISO 11357-1/-3
Glass transition temperature, 18°F/min	30 / 10	°C	ISO 11357-1/-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
Humidity absorption, 80mil	1 / *	%	Sim. to ISO 62
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	245	°C	-
Melt Temperature Range	240 - 255	°C	-

Characteristics

Processing	<ul style="list-style-type: none"> • Injection Molding • Film Extrusion 	<ul style="list-style-type: none"> • Profile Extrusion • Sheet Extrusion 	<ul style="list-style-type: none"> • Other Extrusion • Coating
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"> • Heat stabilized or stable to heat 		

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

North America

DONGGUAN FUMEI PLASTICS CO.,LTD.

EMAIL: fumei@foomx.com

Asia Pacific

TEL: +86 0769-82339888 / 87798999

Europe/Middle East/Africa

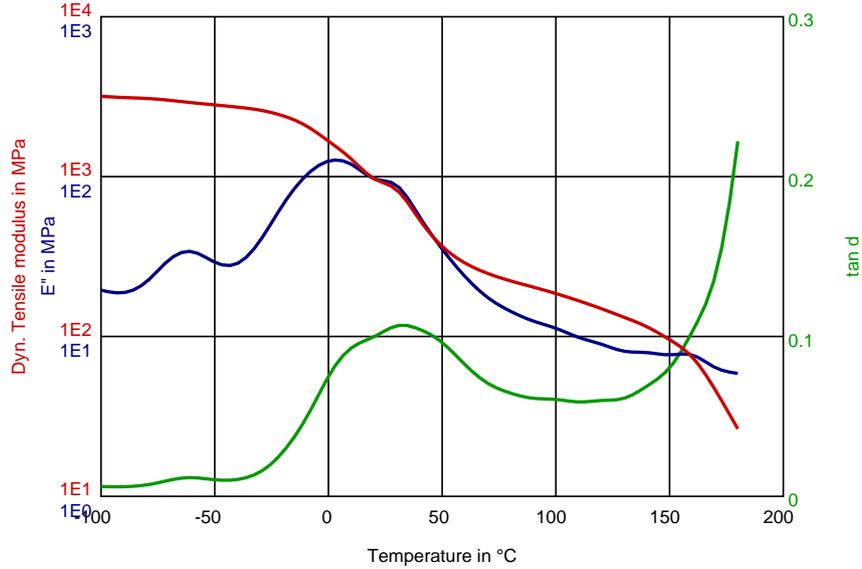


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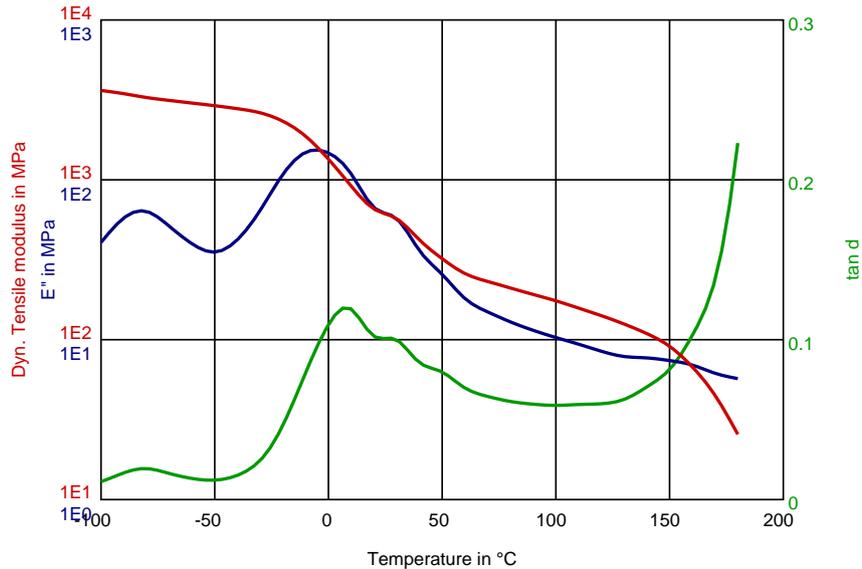
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Diagrams

Dynamic Tensile modulus-temperature (dry)



Dynamic Tensile modulus-temperature (cond.)



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 (Hytel® measured at 80 mil), IEC Electrical properties measured at 80 mil, all ASTM properties

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EMAIL: fumei@foomx.com

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measured at 120 mil, and test temperatures are 73°F unless otherwise stated.

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