

DuPont™ Zytel® RS 3261THSL BK041A

NYLON RESIN

Product Information

Zytel® RS 3261THSL BK041A is an unreinforced, toughened, heat stabilized, biobased polyamide 610 resin for injection molding applications.

	Value	Unit	Test Standard
General information			
Resin Identification	PA610-I	-	ISO 1043
Part Marking Code	>PA610-I<	-	ISO 11469
Rheological properties			
	dry / cond	Unit	Test Standard
Molding shrinkage, parallel	1.5 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	1.2 / -	%	ISO 294-4, 2577
Mechanical properties			
	dry / cond	Unit	Test Standard
Tensile Modulus	1500 / 800	MPa	ISO 527-1/-2
Yield stress	40 / 32	MPa	ISO 527-1/-2
Yield strain	5 / 30	%	ISO 527-1/-2
Nominal strain at break	>50 / >50	%	ISO 527-1/-2
Strain at Break, 23°C, 50mm/min	35 / 250	%	ISO 527-1/-2
Charpy impact strength, 73°F	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 73°F	70 ^[P] / 95 ^[P]	kJ/m ²	ISO 179/1eA
Izod notched impact strength, 73°F	65 ^[P] / 80 ^[P]	kJ/m ²	ISO 180/1A

P: Partial Break

	dry / cond	Unit	Test Standard
Thermal properties			
Melting temperature, 18°F/min	223 / *	°C	ISO 11357-1/-3
Glass transition temperature, 18°F/min	60 / 50	°C	ISO 11357-1/-2
Temp. of deflection under load			ISO 75-1/-2
260 psi	50 / *	°C	
65 psi	110 / *	°C	

	Value	Unit	Test Standard
Flammability			
FMVSS Class	B	-	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	<100	mm/min	ISO 3795 (FMVSS 302)

	dry / cond	Unit	Test Standard
Other properties			
Humidity absorption, 80mil	1.2 / *	%	Sim. to ISO 62
Density	1030 / -	kg/m ³	ISO 1183

	Value	Unit	Test Standard
Injection			
Drying Recommended	yes	-	-
Drying Temperature	≥80	°C	-
Drying Time, Dehumidified Dryer	3 - 4	h	-
Processing Moisture Content	≤0.1	%	-
Melt Temperature Optimum	270	°C	-
Min. melt temperature	260	°C	-
Max. melt temperature	280	°C	-
Mold Temperature Optimum	80	°C	-
Min. mold temperature	60	°C	-
Max. mold temperature	100	°C	-

Characteristics

Processing	• Injection Molding
Delivery form	• Pellets
Additives	• Lubricants • Release agent
Special characteristics	• Heat stabilized or stable to heat

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

North America

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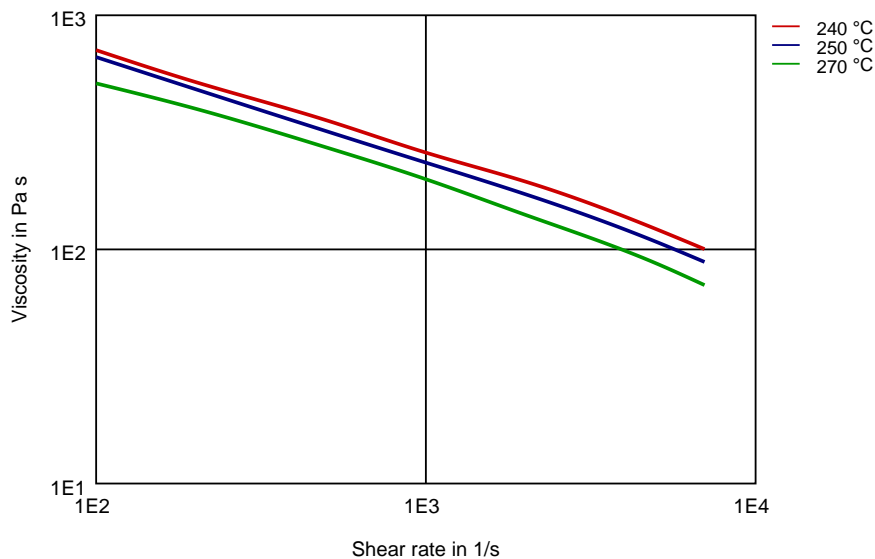


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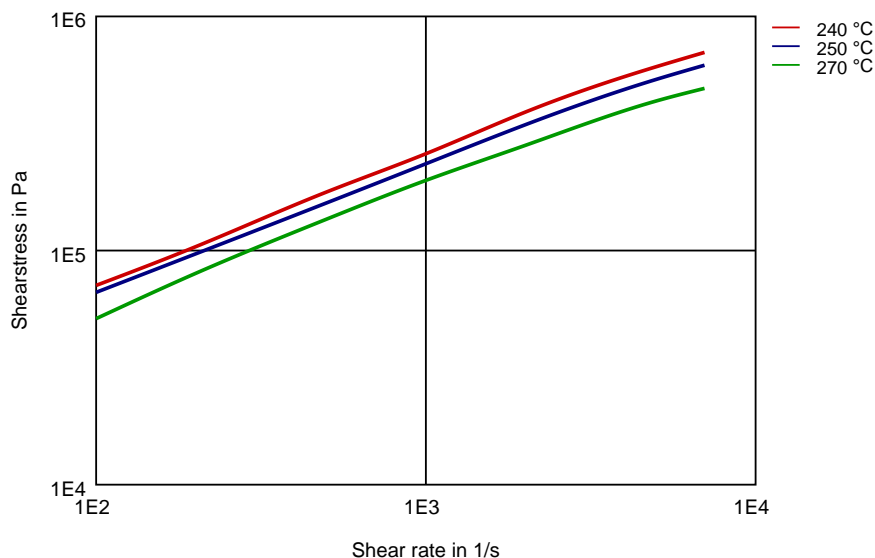
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Diagrams

Viscosity-shear rate



Shearstress-shear rate



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

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Page: 2 of 3

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

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