

Zytel[®] RS LC2600 BK043A

LONG CHAIN POLYAMIDE RESIN

Zytel® RS LC2600 BK043A is an unreinforced, plasticized, high viscosity, biobased long chain polyamide resin developed for air brake tubes and fluid handling applications.

Product information

Resin Identification Part Marking Code ISO designation	PA-IP >PA-IP< ISO 16396-PA-IP,,M1CG1H,S14-010		ISO 1043 ISO 11469
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Typical mechanical properties	dry/cond.		
Tensile modulus	1150/660	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	37/36	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min Tensile stress at break, 50mm/min	19/30 36/30	% MPa	ISO 527-1/-2 ISO 527-1/-2
Nominal strain at break	>50 ^{/30}	%	ISO 527-1/-2
Flexural modulus	900/470	MPa	ISO 178
Flexural stress at 3.5%	35/18	MPa	ISO 178
Charpy impact strength, 23°C	N/-	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	65 ^[3] /-	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	11/-	kJ/m²	ISO 179/1eA
Poisson's ratio	0.44/0.46		
[1]: 290%			
[2]: 330%			
[3]: Partial break			
Thermal properties	dry/cond.		
Melting temperature, 10°C/min	220/*	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	40/30	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	43/*	°C	ISO 75-1/-2
Flammability			
FMVSS Class	В		ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	<80	mm/min	ISO 3795 (FMVSS 302)
Physical/Other properties	dry/cond.		
Humidity absorption, 2mm	1/*	%	Sim. to ISO 62
Density	1050/-	kg/m ³	ISO 1183
Extrusion			
Drying Temperature	75 - 80	°C	
Drying Time, Dehumidified Dryer	3 - 4	-	
Processing Moisture Content	≤0.06		
Melt Temperature Optimum	240	°C	
Melt Temperature Range	230 - 245	°C	

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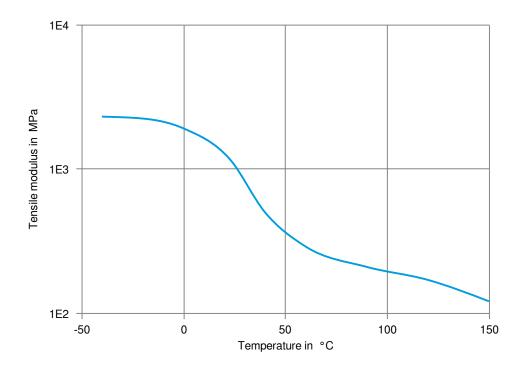


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Characteristics

Processing	Injection Moulding, Extrusion, Other Extrusion
Delivery form	Pellets
Additives	Plasticiser
Special characteristics	Heat stabilised or stable to heat
Sustainability	Bio-Content
Additives Special characteristics	Plasticiser Heat stabilised or stable to heat

Tensile modulus-temperature (dry)

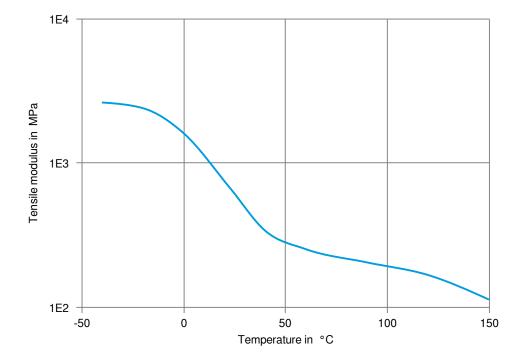




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Tensile modulus-temperature (cond.)



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