Zytel® HTN54G35EF BKB336

HIGH PERFORMANCE POLYAMIDE RESIN

Zytel® HTN high performance polyamide resins feature high retention of properties upon exposure to elevated temperature, to high moisture, and to harsh chemical environments. Polymer families and grades of Zytel® HTN are tailored to optimize performance as well as processability.

Typical applications with Zytel® HTN include demanding applications in the automotive, electrical and electronics, domestic appliances, and construction industries.

Zytel® HTN54G35EF BKB336 is a 35% glass reinforced, toughened, laser markable high performance polyamide resin, developed for electrical and electronics applications. It is also a PPA resin.

Product information

Resin Identification	PA-I-GF35	ISO 1043
Part Marking Code	>PA-I-GF35<	ISO 11469
Part Marking Code	>PPA-I-GF35<	SAE J1344
ISO designation	ISO 16396-PA-I,GF35,M1CGHR,S12-120	

Rheological properties

	dry/cond.		
Viscosity number	3180 / *	in³/lb	ISO 307, 1628

Typical mechanical properties

	dry/cond.		
Tensile modulus	1.7E6 / -	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	27400 / -	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.7 / -	%	ISO 527-1/-2
Charpy impact strength, 23°C	42.8 / -	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	6.66 / -	ftlb/in²	ISO 179/1eA

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	579 / *	°F	ISO 11357-1/-3
Glass transition temperature, 10°C/min	239 / 149	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	500 / *	°F	ISO 75-1/-2

Flammability

FMVSS Class	SE	ISO 3795 (FMVSS 302)

Electrical properties

	dry/cond.	
Comparative tracking index	600[1] / -	IEC 60112

[1]: Passed 100 drop at 550V vs 575V

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	1.8 / *	%	Sim. to ISO 62
Water absorption, 2mm	5 / *	%	Sim. to ISO 62
Density	0.0498 / -	lb/in³	ISO 1183

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Injection

Drying Recommended	yes	
Drying Temperature	212	°F
Drying Time, Dehumidified Dryer	6 - 8	h
Processing Moisture Content	≤0.1	%
Melt Temperature Optimum	617	°F
Min. melt temperature	608	°F
Max. melt temperature	626	°F
Min. mold temperature	194	°F
Max. mold temperature	266	°F
Hold Pressure Time (h is the max. wall thickness of the part in mm)	h^2+2	s

Automotive

OEM	ADDITIONAL INFORMATION
Renault-Nissan	UB23, No Spec, Special Part Approval, See Your CE Account Manager.

Characteristics

Processing	Injection Molding
Special characteristics	Heat stabilized or stable to heat

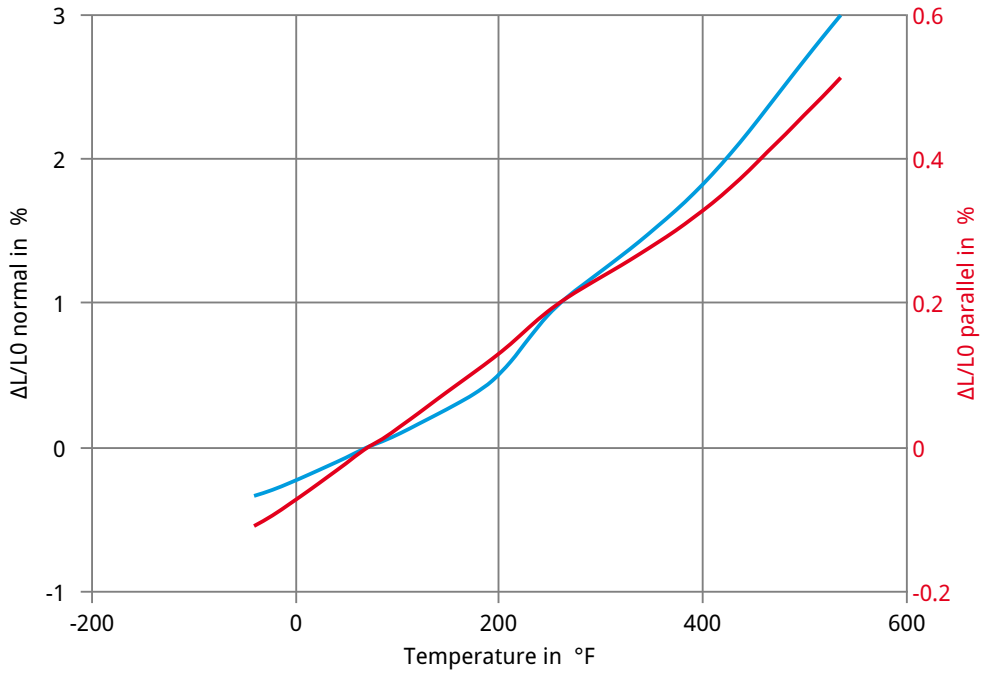
Additional information

Injection molding	During molding, use proper protective equipment and adequate ventilation. Avoid exposure to fumes and limit the hold up time and temperature of the resin in the machine. Purge degraded resin carefully with HDPE.

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Thermal expansion



Revised: 2026-08-12 Source: Celanese Materials Database

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