Zytel® HTN7550CGS

HIGH PERFORMANCE POLYAMIDE RESIN

- Zytel® HTN7550CGS is a glass fiber/carbon fiber 50%-reinforced PA.MXD6 grade.
- It is suitable for applications such as automotive, electrical & electronics, and industrial parts.

Product information

Resin Identification	PAMXD6-(CF+GF)50	ISO 1043
Part Marking Code	>PAMXD6-(CF+GF)50<	ISO 11469

Typical mechanical properties

	dry/cond.		
Tensile stress at break, 5mm/min	34800 / -	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2 / -	%	ISO 527-1/-2
Flexural modulus	2.83E6 / -	psi	ISO 178
Flexural strength	50800 / -	psi	ISO 178
Charpy notched impact strength, 23°C	5.95 / -	ftlb/in²	ISO 179/1eA
Hardness, Rockwell, R-scale	120 / -		ISO 2039-2

Thermal properties

	dry/cond.		
Melting temperature, 10°C/min	460 / *	°F	ISO 11357-1/-3

Flammability

	dry/cond.		
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.0315 / *	in	IEC 60695-11-10

Physical/Other properties

	dry/cond.		
Humidity absorption, 2mm	0.17 / *	%	Sim. to ISO 62
Density	0.0563 / -	lb/in³	ISO 1183

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Hyundai	MS211-19 Type C	Pyeongtaek,Korea

Characteristics

Processing	Injection Molding

Additional information

Injection molding

Preprocessing

The maximum humidity content allowed for the injection molding process is 0.10%. The drying time depends on the initial moisture content and the drying conditions used. Generally 8 hours at 90°C at a dehumidifier dryer are sufficient.

Processing

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The following conditions apply to the normal injection molding process of MAXIMID compounds. Machine temperatures: barrel 250-280°C, nozzle and hot runners 280°C. Mold temperatures: 120-140°C. Back pressure: typically 5-10 bar (hydraulic pressure). In case of gas generation in the melt, please verify moisture content and processing temperatures. For further details, please contact our technical support team.

Processing Notes

Pre-Drying

It is recommended to dry material at 80ºC for 4-6h at dehumidified dryer. suggested max. moisture = 0.05%

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