Zytel® HTN7160GFU

HIGH PERFORMANCE POLYAMIDE RESIN

- Zytel® HTN7160GFU is a glass fiber 60%-reinforced PA.MXD6 grade.
- It has strong mechanical properties, wear resistance and heat resistance.
- It is suitable for applications such as automotive, electrical & electronics, and industrial parts.

Product information

Resin Identification	PAMXD6-GF60	ISO 1043
Part Marking Code	>PAMXD6-GF60<	ISO 11469

Typical mechanical properties

	dry/cond.		
Tensile stress at break, 5mm/min	37700 / -	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.2 / -	%	ISO 527-1/-2
Flexural modulus	3.05E6 / -	psi	ISO 178
Flexural strength	58000 / -	psi	ISO 178
Charpy notched impact strength, 23 °C	6.66 / -	ftlb/in²	ISO 179/1eA

Thermal properties

	dry/cond.		
Melting temperature, 10 °C/min	428 / *	°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	0.6 / *	%	Sim. to ISO 62
Density	0.0625 / -	lb/in³	ISO 1183

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Hyundai	MS211-45 Type F	Pyeongtaek,Korea

Characteristics

Processing	Injection Molding
Special characteristics	Heat stabilized or stable to heat, Low wear / Low friction

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

Revised: 2025-09-11 Source: Celanese Materials Database

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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 90ºC for 8h at dehumidified dryer. suggested max. moisture = 0.10%

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