

DuPont™ Zytel® HTNFE8200 BK431

HIGH PERFORMANCE POLYAMIDE RESIN

Product Information

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® HTNFE8200 BK431 is an unreinforced, toughened, heat stabilized high performance polyamide resin for injection molding. It is also a PPA resin.

General information	Value	Unit	Test Standard
Resin Identification	PA6T/XT-HI	-	ISO 1043
Part Marking Code	PA6T/XT-HI	-	ISO 11469
Part Marking Code	>PPA-I<	-	SAE J1344
Rheological properties	dry / cond	Unit	Test Standard
Molding shrinkage, parallel	1.0 / -	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0 / -	%	ISO 294-4, 2577
Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	2200 / -	MPa	ISO 527-1/-2
Yield stress	69 / -	MPa	ISO 527-1/-2
Yield strain	5.5 / -	%	ISO 527-1/-2
Nominal strain at break	14 / -	%	ISO 527-1/-2
Flexural Modulus	2100 / -	MPa	ISO 178
Charpy impact strength			ISO 179/1eU
73 °F	N / N	kJ/m ²	
-22 °F	N / N	kJ/m ²	
Charpy notched impact strength, 73 °F	80 / -	kJ/m ²	ISO 179/1eA
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature, first heat	300 / *	°C	ISO 11357-1/-3
Temp. of deflection under load			ISO 75-1/-2
260 psi	125 / *	°C	
65 psi	138 / *	°C	
Flammability	Value	Unit	Test Standard
FMVSS Class	B	-	ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	<100	mm/min	ISO 3795 (FMVSS 302)
Electrical properties	dry / cond	Unit	Test Standard
Volume resistivity	>1E13 / -	Ohm*m	IEC 62631-3-1
Other properties	dry / cond	Unit	Test Standard
Density	1130 / -	kg/m ³	ISO 1183
Injection	Value	Unit	Test Standard
Drying Recommended	yes	-	-
Drying Temperature	≥100	°C	-
Drying Time, Dehumidified Dryer	6 - 8	h	-
Processing Moisture Content	≤0.1	%	-
Melt Temperature Optimum	325	°C	-
Min. melt temperature	320	°C	-
Max. melt temperature	330	°C	-
Min. mold temperature	80	°C	-
Max. mold temperature	120	°C	-

Characteristics

Processing	<ul style="list-style-type: none"> Injection Molding
Special characteristics	<ul style="list-style-type: none"> Heat stabilized or stable to heat



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Regional Availability

- North America
- Europe

- Asia Pacific
- South and Central America

- Near East/Africa
- Global

Processing Texts

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.

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

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North America

DONGGUAN FUMEI PLASTICS CO.,LTD.

EMAIL: fumei@foomx.com

Asia Pacific

TEL: +86 0769-82339888 / 87798999

Europe/Middle East/Africa

