

DuPont Performance Polymers Zytel® HTN 51G35NOX BK420 Polyphthalamide (PPA)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 40% Glass Fiber Reinforced

Material Notes:

Zytel® HTN51G35NOX BK083 is a 35% glass reinforced high performance polyamide resin developed for Selective Catalytic Reduction applications that require exposure to water/urea solution. It is also a PPA resin. Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Zytel-HTN-51G35NOX-BK420-Polyphthalamide-PPA.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in³	DAM; ISO 1183
Filler Content	35 %	35 %	DAM

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	215 MPa @Temperature 23.0 °C	31200 psi @Temperature 73.4 °F	DAM; ISO 527
Elongation at Break	2.3 % @Temperature 23.0 °C	2.3 % @Temperature 73.4 °F	DAM; ISO 527
Tensile Modulus	11.5 GPa @Temperature 23.0 °C	1670 ksi @Temperature 73.4 °F	DAM; ISO 527
Charpy Impact Unnotched	6.00 J/cm² @Temperature 23.0 °C	28.6 ft-lb/in² @Temperature 73.4 °F	DAM; ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm² @Temperature 23.0 °C	4.76 ft-lb/in² @Temperature 73.4 °F	DAM; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	264 °C	507 °F	DAM; ISO 75-1/-2

Processing Properties	Metric	English	Comments
Melt Temperature	325 °C	617 °F	DAM; Optimum
	320 - 330 °C	608 - 626 °F	DAM
Mold Temperature	150 °C	302 °F	DAM; optimum
	140 - 160 °C	284 - 320 °F	DAM

Processing Properties	Metric	English	Comments
Dry Time	6.00 - 8.00 hour	6.00 - 8.00 hour	DAM
Moisture Content	<= 0.10 %	<= 0.10 %	DAM

Descriptive Properties	Value	Comments
Appearance	Black Color	DAM
Filler	Glass Reinforced	DAM
Forms	Pellets	DAM
Generic	Polyphthalamide (PPA)	DAM
Material Status	Preliminary Data	DAM
Part Marking Code	>PA6T/XT-GF35<	ISO 11469; DAM
	>PPA-GF35<	SAE J1344; DAM
Processing Method	Injection Molding	DAM
Product Category	Glass Reinforced Resins	DAM
Region Available - Global	Yes	DAM
Resin Identification	PA6T/XT-IGF35	ISO 1043; DAM
RoHS Compliance	Contact Manufacturer	DAM

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