

DENYL HT 5010

Polyphthalamide

Vamp Tech

Message:

PPA 50% glass fiber reinforced, excellent mechanicals properties, low water absorption, high chemical resistance and excellent operating temperature.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	Good Chemical Resistance		
	Low to No Water Absorption		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.63	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.10	%	
Across Flow	0.50	%	
Water Absorption (Saturation)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	18000	MPa	ASTM D638
Tensile Strength (Yield)	250	MPa	ASTM D638
Tensile Elongation (Break)	1.9	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	9.0	kJ/m ²	ISO 180/A
Unnotched Izod Impact Strength	70	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	285	°C	ASTM D648A
RTI Elec	150	°C	UL 746
RTI Imp	150	°C	UL 746
RTI Str	150	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	ASTM D257
Comparative Tracking Index (CTI)	600	V	UL 746
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	330	°C	
Mold Temperature	140	°C	

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