

ProPolymers PPA TI-50G

Polyphthalamide

ProPolymers Inc.

Message:

PPA TI-50G is a 50% glass fiber reinforced hest stabilized polyphthalamide (PPA) resin. It has very high stiffness, tensile strength, and heat deflections temperature combined with low water absorption and creep.

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 50% filler by weight		
Additive		heat stabilizer		
Features		Rigidity, high		
		High tensile strength		
		Good creep resistance		
		Heat resistance, high		
		Thermal Stability		
		Low or no water absorption		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.64	1.64	g/cm³	ASTM D792
Molding Shrinkage				ASTM D955
Flow	0.10	0.10	%	ASTM D955
Transverse flow	0.50	0.50	%	ASTM D955
Water Absorption (24 hr)	0.25	0.25	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	125	125		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Yield)	221	207	MPa	ASTM D638
Tensile Elongation (Break)	2.0	2.0	%	ASTM D638
Flexural Modulus	16500	16500	MPa	ASTM D790
Flexural Strength	321	300	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	80	80	J/m	ASTM D256
Unnotched Izod Impact	1000	1000	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, not annealed	285	285	°C	ASTM D648
1.8 MPa, not annealed	277	277	°C	ASTM D648
Continuous Use Temperature	166	166	°C	

Peak Melting Temperature	302	302	°C	ASTM D3418
CLTE - Flow	1.4E-5	1.4E-5	cm/cm/°C	ASTM D696

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