

OPNYL OP6GF50

Polyamide 6
Ovation Polymers Inc.

Message:
Nylon 6 - Glass reinforced (50 %), high tensile strength, stiffness and HDT.

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Features		High Stiffness		
		High Tensile Strength		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.59	1.59	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.40	0.20 to 0.40	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus ¹	8800	6000	MPa	ASTM D638
Tensile Strength ² (Break)	225	150	MPa	ASTM D638
Tensile Elongation ³ (Break)	2.0	4.0	%	ASTM D638
Flexural Modulus ⁴	12400	8800	MPa	ASTM D790
Flexural Strength ⁵ (Yield)	240	180	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C)	120	--	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Annealed, 3.20 mm	216	--	°C	
1.8 MPa, Annealed, 3.20 mm	211	--	°C	
NOTE				
1.	50 mm/min			
2.	50 mm/min			
3.	50 mm/min			
4.	1.3 mm/min			
5.	1.3 mm/min			

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