

OPTRENE 20GF

Polypropylene
Ovation Polymers Inc.

Message:
Properties of chemically coupled glass reinforced (20%) polypropylene with high strength and HDT.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	High Strength		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.03	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	14 to 16	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 3.17 mm	0.24 to 0.30	%	
Across Flow : 3.17 mm	0.80 to 1.2	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2100	MPa	ASTM D638
Tensile Strength ² (Yield)	68.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	5.0	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	2500	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 50.0 mm Span)	87.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	69	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	144	°C	ASTM D648
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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