



OmniPro™
HPP GMR20

20% Glass/Mineral Reinforced, Chemically Coupled, Homopolymer Polypropylene

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	8	8
Specific Gravity		D792	1.04	1.04
Filler/Reinforcement	%	D2584	20	20
Mold Shrinkage, Linear	in/in	D955	.002 to .006	
Mold Shrinkage, Transverse	in/in	D955	.004 to .008	

IMPACT

Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	1	53
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MECHANICAL

Tensile Strength At Yield, 73°F	psi (MPa)	D638	8,000	55
Tensile Elongation	%	D638	4	4
Flexural Modulus	psi (MPa)	D790	600,000	4,137
Flexural Strength	psi (MPa)	D790	12,000	83

THERMAL

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	295	146
1/8" bar, 264 psi	°F (°C)	D648	-	-

FLAMMABILITY

Flame Resistance *Omni Internal Testing	.125"	UL94	HB*	HB*
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RECOMMENDED PROCESSING CONDITIONS

Drying Temperature	N/A
Drying Time	N/A
Maximum Moisture	N/A
Rear Zone(s)	400 to 480° F
Middle Zone(s)	420 to 500° F
Front Zone(s)	420 to 500° F
Nozzle	420 to 500° F
Mold Temperature	80 to 140° F
Melt Temperature	420 to 500° F
Back Pressure	50 to 100 psi

Values are based on natural or black materials unless otherwise noted. Properties and values herein are based on laboratory test specimens and should not be used to establish minimum specification limits or fabricate tooling.

Omni does not guarantee the accuracy of this information or the suitability of this product in any given application or usage situation.