



OmniPro™
HPP GRC20

20% Glass Reinforced, Chemically Coupled, Homopolymer Polypropylene

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	12	12
Specific Gravity		D792	1.04	1.04
Filler/Reinforcement	%	D2584	20	20
Mold Shrinkage, Linear	in/in	D955	.001 to .004	
Mold Shrinkage, Transverse	in/in	D955	.005 to .009	
IMPACT				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	2	107
MECHANICAL				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	10,900	75
Tensile Elongation	%	D638	3	3
Flexural Modulus	psi (MPa)	D790	650,000	4,482
Flexural Strength	psi (MPa)	D790	16,500	114
THERMAL				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	305	152
1/8" bar, 264 psi	°F (°C)	D648	280	138
Vicat Softening Temperature	°F (°C)	D1525	320	160
FLAMMABILITY				
Flame Resistance *Omni Internal Testing	.125"	UL94	HB*	HB*
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.