

Optipro HP30G

The Materials Group - Polypropylene Homopolymer

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber
Features	• High Stiffness
Appearance	• Black • Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.5	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.20 to 0.50	%	ISO 294-4
Ash Content	30	%	ISO 3451-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	8270	psi	ISO 527-2
Tensile Strain (Break)	7.0	%	ISO 527-2
Flexural Modulus	653000	psi	ISO 178
Flexural Stress ²	12300	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	3.8	ft·lb/in ²	ISO 180

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	160 to 180	°F
Rear Temperature	410 to 460	°F
Middle Temperature	410 to 460	°F
Front Temperature	400 to 470	°F
Nozzle Temperature	410 to 460	°F
Processing (Melt) Temp	400 to 480	°F
Mold Temperature	80 to 140	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

² @ Yield

