

Optipro CP47GB

The Materials Group - Polypropylene Homopolymer

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber
Features	• Excellent Processability • Homopolymer
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	25	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	290000	psi	ISO 527-1/1
Tensile Stress	3920	psi	ISO 527-2/50
Tensile Strain (Yield)	3.6	%	ISO 527-2/50
Tensile Strain (Break)	5.5	%	ISO 527-2/50
Flexural Modulus	247000	psi	ISO 178
Flexural Stress	5860	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°F	1.9	ft·lb/in ²	
73°F	3.3	ft·lb/in ²	

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	390 to 410	°F
Middle Temperature	400 to 420	°F
Front Temperature	410 to 430	°F
Nozzle Temperature	420 to 440	°F
Mold Temperature	115 to 130	°F

Notes

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

