

Polifil® PP HM-40

Polypropylene

The Plastics Group

Message:

Polifil® PP HM-40 is a Polypropylene product filled with 40% mineral. It can be processed by blow molding or injection molding and is available in North America.

Characteristics include:

Good Processability

Homopolymer

General Information	
Filler / Reinforcement	Mineral,40% Filler by Weight
Features	Good Processability
	Homopolymer
Forms	Pellets
Processing Method	Blow Molding
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	36.5	MPa	ASTM D638
Flexural Modulus	5270	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	27	J/m	ASTM D256
Unnotched Izod Impact	170	J/m	ASTM D256
Gardner Impact	0.655	J	ASTM D3029

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	127	°C	ASTM D648

Injection	Nominal Value	Unit
Rear Temperature	193 to 204	°C
Middle Temperature	199 to 210	°C
Front Temperature	204 to 216	°C
Nozzle Temperature	210 to 221	°C
Mold Temperature	48.9 to 65.6	°C
Injection Pressure	82.7 to 110	MPa

Injection Rate	Moderate-Fast	
Back Pressure	0.345	MPa

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Recommended distributors for this material

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