

POLYfill PPH GF5020 PD2 VT2

Polypropylene Homopolymer

Polykemi AB

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Technical Data

Product Description

POLYfill PPH GF5020 PD2 VT2 is a Polypropylene Homopolymer (PP Homopolymer) product filled with 20% glass fiber. It is available in Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

- Flame Rated
- Heat Stabilizer

General

Material Status	• Commercial: Active
Search for UL Yellow Card	• Polykemi AB • POLYfill
Availability	• Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Stabilized

Physical	Nominal Value Unit	Test Method
Density	1.05 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0 g/10 min	ISO 1133
Molding Shrinkage		Internal Method
Across Flow	0.60 to 0.80 %	
Flow	0.30 to 0.40 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Stress (Break)	80.0 MPa	ISO 527-2
Tensile Strain (Break)	4.5 %	ISO 527-2
Flexural Modulus (23°C)	4300 MPa	ISO 178
Flexural Stress	105 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179
-20°C	5.0 kJ/m ²	
23°C	7.0 kJ/m ²	

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load ²		
0.45 MPa, Unannealed	150 °C	ISO 75-2/B
1.8 MPa, Unannealed	130 °C	ISO 75-2/A
Vicat Softening Temperature	125 °C	ISO 306/B50

Flammability	Nominal Value Unit	Test Method
Flame Rating (1.6 mm)	HB	UL 94
Glow Wire Flammability Index (2.0 mm)	750 °C	IEC 60695-2-12

Injection	Nominal Value Unit
Drying Temperature	70 to 80 °C
Drying Time	2.0 to 4.0 hr
Processing (Melt) Temp	205 to 260 °C
Mold Temperature	30 to 60 °C
Back Pressure	6.00 to 10.0 MPa
Peripheral Screw Speed	36 to 45 m/min

Notes

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

² 120°C/h



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Where to Buy

Supplier

Polykemi AB

Ystad, Ystad Sweden

Telephone: +46-411-170-30

Web: <http://www.polykemi.se/>

Distributor

Please contact the supplier to find a distributor for POLYfill PPH GF5020 PD2 VT2

