

# POLYblend 45V GF10

Polycarbonate + ABS

**Polykemi AB**

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## Technical Data

### Product Description

POLYblend 45V GF10 is a Polycarbonate + ABS (PC+ABS) product filled with 10% glass fiber. It is available in Asia Pacific, Europe, Latin America, or North America.

Characteristics include:

- Flame Rated
- Flame Retardant

### General

Material Status	• Commercial: Active	
Search for UL Yellow Card	• <b>Polykemi AB</b>	
Availability	• Asia Pacific • Europe	• Latin America • North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight	
Additive	• Flame Retardant	
Features	• Flame Retardant	

Physical	Nominal Value Unit	Test Method
Density	1.25 g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage		ISO 294-4
Across Flow	0.30 to 0.50 %	
Flow	0.30 to 0.50 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Strain (Yield)	3.5 %	ISO 527-2
Flexural Modulus (23°C)	4000 MPa	ISO 178
Flexural Stress	105 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0 kJ/m <sup>2</sup>	ISO 179

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature <sup>2</sup>		
0.45 MPa, Unannealed	110 °C	ISO 75-2/B
1.8 MPa, Unannealed	100 °C	ISO 75-2/A
Vicat Softening Temperature	115 °C	ISO 306/B50

Flammability	Nominal Value Unit	Test Method
Flame Rating (1.6 mm)	V-0	UL 94
Glow Wire Ignition Temperature (1.6 mm)	960 °C	IEC 60695-2-13

Additional Information	Nominal Value Unit	Test Method
Filler Content	8.0 to 12 %	ISO 3451

Injection	Nominal Value Unit
Drying Temperature	80 to 100 °C
Drying Time	2.0 to 8.0 hr
Suggested Max Moisture	< 0.020 %
Processing (Melt) Temp	240 to 260 °C
Mold Temperature	70 to 100 °C
Back Pressure	6.00 to 10.0 MPa
Peripheral Screw Speed	18 to 30 m/min

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 120°C/h



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### Where to Buy

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#### Supplier

##### **Polykemi AB**

Ystad, Sweden

**Telephone:** +46-411-170-30

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

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#### Distributor

Please contact the supplier to find a distributor for POLYblend 45V GF10

