

OMNIPRO® HPP GRC40 PL

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Polypropylene, homopolymer, 40% glass fiber reinforced, chemically coupled.

Product information

Resin Identification	PP-GF40	ISO 1043
Part Marking Code	>PP-GF40<	ISO 11469

Rheological properties

Melt mass-flow rate	5 g/10min	ISO 1133
Melt mass-flow rate, Temperature	230 °C	
Melt mass-flow rate, Load	2.16 kg	
Moulding shrinkage, parallel	0.2 %	ISO 294-4, 2577
Moulding shrinkage, normal	0.9 %	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	9630 MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	105 MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.8 %	ISO 527-1/-2
Flexural modulus	9600 MPa	ISO 178
Flexural strength	170 MPa	ISO 178
Charpy impact strength, 23 °C	59 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23 °C	14 kJ/m ²	ISO 179/1eA
Poisson's ratio	0.34 ^[C]	

[C]: Calculated

Physical/Other properties

Density	1220 kg/m ³	ISO 1183
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