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	446	°F	
Melt mass-flow rate, Load	4.76	lb	
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	1.4E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	15200	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.8	%	ISO 527-1/-2
Flexural modulus	1.39E6	psi	ISO 178
Flexural strength	24700	psi	ISO 178
Charpy impact strength, 23°C	28.1	ftlb/in^2	ISO 179/1eU
Charpy notched impact strength, 23°C	6.66	ftlb/in^2	ISO 179/1eA

Physical/Other properties

Density	0.044	lb/in^3	ISO 1183

Revised: 2024-05-15 Source: Celanese Materials Database

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