Composite PP

G/F reinforced PP composite

GH42

Application

Automotive E&E parts, Household goods, Hanger

Characteristics

Excellent physical properties, High heat resistance, Excellent processability, Low shrinkage

Physical properties

Item	Test Method	Unit	Typical Value
Melt index (230℃)	ASTM D1238	g/10min	10
Specific gravity	ASTM D792	g/㎤	1.04
Tensile strength (at yield)	ASTM D638	kg/㎠	900
Elongation (at break)	ASTM D638	%	4
Flexural strength	ASTM D790	kg/㎠	1,100
Flexural modulus	ASTM D790	kg/㎠	42,000
Izod Impact Strength (23℃)	ASTM D256	kg ㎝/㎝	10
Rockwell hardness	ASTM D785	R scale	114
Heat distortion temperature	ASTM D648	℃	162
Shrinkage Ratio	HTC METHOD	%	0.3~1.0
Flame-retardancy	UL94	-	HB(1/16")

Note: The above physical property value is a representative value for reference and is not a product quality standard.

Processing conditions

Item	Unit	Typical value
Processing temperature	℃	180 ~ 220
Mold temperature	℃	50 ~ 80
Screw	rpm	30 ~ 80
Back pressure	kg/㎠	5 ~ 10
Injection speed	%	500 ~ 900

※ Actual injection conditions should be adjusted according to the type of injection machine, mold, and part size.

Certification

For further inquiries, please contact Hanwha TotalEnergies Petrochemical Composite Development Team.

Contact information

Hanwha TotalEnergies Petrochemical co. Ltd.
www.htpchem.com

Sales Office
04525 No.92, Sejong-daero, Jung-gu, 16,18-20F, Hanwha Finance Plaza, Seoul, Republic of Korea
16th floor of Hanwha Financial Plaza

Composite Development Team
31900 103, Dokgot 2-ro, Daesan-eup, Seosan-si, Chungcheongnam-do, Republic of Korea
T. 041-660-6106 F. 041-660-6089

Disclaimer

This document is copyrighted by Hanwha TotalEnergies Petrochemical. All information is for reference only and is not the specifications of the final product. Customers should make their own judgments as to whether our products and information serve a particular purpose and what regulations apply to customers' use of such products. Hanwha TotalEnergies Petrochemical is not responsible or obligated for the contents of this document. Hanwha TotalEnergies Petrochemical provides no warranties of any kind, either express or implied (such as merchantability and or fitness for a particular purpose, etc.) with respect to any information contained in this material. Hanwha TotalEnergies Petrochemical may arbitrarily change the contents of this material without prior notice.