

TB5



Composite PP

Thermal resistant PP composite

Application

Characteristics

Automotive E&E parts, Washing machine interior parts, Detergent box

Excellent heat-resistance and dimensional stability, High stiffness and impact strength, Excellent processability

Physical
properties

Item	Test Method	Unit	Typical Value
Melt index (230°C)	ASTM D1238	g/10min	10
Specific gravity	ASTM D792	g/cm³	1.12
Tensile strength (at yield)	ASTM D638	kg/cm²	340
Elongation (at break)	ASTM D638	%	60
Flexural strength	ASTM D747	kg/cm²	530
Flexural modulus	ASTM D790	kg/cm²	35,000
Izod Impact Strength (23°C)	ASTM D256	kg cm/cm	4.5
Rockwell hardness	ASTM D785	R scale	91
Heat distortion temperature	ASTM D648	°C	142
Shrinkage Ratio	HTC METHOD	%	0.8 ~ 1.2

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

ltem	Unit	Typical value
Feeding zone temperature	°C	180 ~ 200
Plasticizing zone temperature	°C	190 ~ 210
Metering zone temperature	°C	200 ~ 220
Mold temperature	°C	40 ~ 80
Screw	rpm	30 ~ 80
Injection pressure	kg/cm²	600 ~ 1,000
Holding pressure	kg/cm²	400 ~ 900

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

Processing conditions



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	

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