

Composite PP

TB81W

Application

Electrical and electronic parts, Air conditioner parts, Housing

Characteristics

Excellent weatherability, 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	40
Specific gravity	ASTM D792	g/cm ³	0.94
Tensile strength (at yield)	ASTM D638	kg/cm ²	310
Elongation (at break)	ASTM D638	%	50
Flexural strength	ASTM D747	kg/cm ²	46
Flexural modulus	ASTM D790	kg/cm ²	23000
Izod Impact Strength (23°C)	ASTM D256	kg cm/cm	5
Rockwell hardness	ASTM D785	R scale	89
Heat distortion temperature	ASTM D648	°C	11
Shrinkage Ratio	HTC METHOD	%	1.3~ 1.7
Flame-retardancy	UL94	-	-

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
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/cm ²	600 ~ 1,000
Holding pressure	kg/cm ²	400 ~ 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

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