

Composite PP

TB52U

Application

Electrical and electronic parts, Air conditioner parts, Grill, Housing

Characteristics

Weatherability (UL746C f1), UL484 certification, 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	12
Specific gravity	ASTM D792	g/cm ³	1.04
Tensile strength (at yield)	ASTM D638	kg/cm ²	350
Elongation (at break)	ASTM D638	%	60
Flexural strength	ASTM D747	kg/cm ²	500
Flexural modulus	ASTM D790	kg/cm ²	27,000
Izod Impact Strength (23°C)	ASTM D256	kg cm/cm	8.5
Rockwell hardness	ASTM D785	R scale	93
Heat distortion temperature	ASTM D648	°C	139
Shrinkage Ratio	HTC METHOD	%	1.0 ~ 1.4
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
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.

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