Composite PP

TB54

Thermal resistant PP composite

Application

Automotive E&E parts, Washing machine interior parts, Household goods

Characteristics

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

Physical properties

Item	Test Method	Unit	Typical Value
Melt index (230℃)	ASTM D1238	g/10min	9
Specific gravity	ASTM D792	g/㎤	1.24
Tensile strength (at yield)	ASTM D638	kg/㎠	340
Elongation (at break)	ASTM D638	%	40
Flexural strength	ASTM D747	kg/㎠	540
Flexural modulus	ASTM D790	kg/㎠	42,000
Izod Impact Strength (23℃)	ASTM D256	kg ㎝/㎝	4
Rockwell hardness	ASTM D785	R scale	89
Heat distortion temperature	ASTM D648	℃	145
Shrinkage Ratio	HTC METHOD	%	0.6 ~ 1.0

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	℃	180 ~ 200
Plasticizing zone temperature	℃	190 ~ 210
Metering zone temperature	℃	200 ~ 220
Mold temperature	℃	40 ~ 80
Screw	rpm	30 ~ 80
Injection pressure	kg/㎠	600 ~ 1,000
Holding pressure	kg/㎠	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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