

Composite PP

TB24

Heat-resistant PP composite for extruding sheets

Application

industrial parts, Household goods, Packaging tray

Characteristics

High stiffness and heat-resistance, Excellent extrusion processability and vacuum molding due to high melting tension, Excellent impact resistance at low temperatures, Completely burned with low calories when incinerated, contributing to environmental protection

Physical properties

Item	Test Method	Unit	Typical Value
Melt index (230°C)	ASTM D1238	g/10min	1.8
Specific gravity	ASTM D792	g/cm ³	1.24
Tensile strength (at yield)	ASTM D638	kg/cm ²	320
Elongation (at break)	ASTM D638	%	40
Flexural strength	ASTM D747	kg/cm ²	530
Flexural modulus	ASTM D790	kg/cm ²	40,000
Izod Impact Strength (23°C)	ASTM D256	kg cm/cm	7.5
Rockwell hardness	ASTM D785	R scale	89
Heat distortion temperature	ASTM D648	°C	145
Shrinkage Ratio	HTC METHOD	%	-
Flame-retardancy	UL94	-	HB

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
cylinder temperature	°C	180 ~ 230
Die temperature	°C	200 ~ 240
Cooling roll temperature	°C	20 ~ 90

※ 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

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