

Hanwha Total PP TB12B

High Melt Strength Polypropylene
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:

TB12B is a polypropylene compound designed for use in extruded sheets. TB12B features superior heat-resistance and the mechanical properties required for sheet products, and is ideal for extrusion processing and vacuum forming. This product is commonly applied to a variety of vacuum-molded products such as food containers and packaging trays, and to other vacuum products used as industrial materials.

General Information	
Features	Rigidity, high
	Good melt strength
	Low temperature impact resistance
	Heat resistance, high
Uses	Packaging
	Industrial application
	Sheet
	Food container
Forms	Particle
Processing Method	Sheet extrusion molding
	Vacuum forming

Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.92	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.80 - 1.1	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	79		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	31.4	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Apparent Bending Modulus	49.0	MPa	ASTM D747
Flexural Modulus	1960	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	220	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	123	°C	ASTM D648
Extrusion	Nominal Value	Unit	

Cylinder Zone 1 Temp.	180 - 230	°C
Cylinder Zone 2 Temp.	180 - 230	°C
Cylinder Zone 3 Temp.	180 - 230	°C
Cylinder Zone 4 Temp.	180 - 230	°C
Cylinder Zone 5 Temp.	180 - 230	°C
Die Temperature	200 - 240	°C

Extrusion instructions

Cooling Toll Temperature: 20 to 90 °C

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

