

# Hanwha Total PP HJ730

Polypropylene Homopolymer

Hanwha Total Petrochemical Co., Ltd.

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## Technical Data

### Product Description

#### Description

HJ730 is a highly isotactic Homo PP(HIPP) with high crystal-line properties compared to normal Homo PP. The product's crystalline properties have enhanced its strength and heat resistance. HJ730 is highly useful for use in electrical/electronic appliances and high strength automobile parts which are exposed to lengthy periods of high temperatures.

#### Characteristics

Unique balance of flowability and impact resistance: processing of large scale parts

- High strength - thin injection molded products may be formed
- Ultra-high heat resistance - high service temperature
- High crystallinity - suitable for high speed processing
- Good surface hardness - excellent scratch resistance
- Good pigment dispersion - allows for dry coloring

#### Applications

- Home appliance such as coffee maker, kettle, etc

### General

Material Status	• Commercial: Active		
Literature <sup>1</sup>	• <a href="#">Technical Datasheet (English)</a>		
UL Yellow Card <sup>2</sup>	• <a href="#">E140331-222941</a>		
Search for UL Yellow Card	• <a href="#">Hanwha Total Petrochemical Co., Ltd.</a>		
Availability	• Asia Pacific	• North America	
Features	• Food Contact Acceptable • Good Colorability • Good Hardness	• High Heat Resistance • High Isotactic • High Scratch Resistance	• High Strength • Highly Crystalline • Homopolymer
Uses	• Appliances	• Automotive Applications	• Electrical/Electronic Applications
Agency Ratings	• FDA 21 CFR 177.1520		
Processing Method	• Injection Molding		

Physical	Nominal Value Unit	Test Method
Density	0.910 g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20 g/10 min	ASTM D1238
Mechanical	Nominal Value Unit	Test Method
Tensile Strength (Yield)	36.3 MPa	ASTM D638
Tensile Elongation (Break)	200 %	ASTM D638
Flexural Modulus	1670 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	29 J/m	ASTM D256
Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	105	ASTM D785
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	120 °C	ASTM D648

### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.



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### Where to Buy

#### Supplier

**Hanwha Total Petrochemical Co., Ltd.**

Seoul, South Korea

**Telephone:** +82-2-3415-9408

**Web:** <http://www.hanwha-total.com/>

#### Distributor

Please contact the supplier to find a distributor for Hanwha Total PP HJ730

