

# Hanwha Total PP HF409

High Crystallinity Polypropylene  
HANWHA TOTAL PETROCHEMICALS Co., Ltd.

Message:  
HF409 is a homo PP grade for cast films. HF409 is a HIPP grade thus this grade provides superb film stiffness and heat resistance.

General Information			
Features	General Purpose		
	Good Processability		
	High Heat Resistance		
	High Stiffness		
	Homopolymer		
Uses	Cast Film		
	Food Packaging		
	General Purpose		
Forms	Pellets		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	40.2	MPa	ASTM D638
Tensile Elongation (Break)	500	%	ASTM D638
Flexural Modulus	1770	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	29	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	125	°C	ASTM D648
Vicat Softening Temperature	158	°C	ASTM D1525

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