

# TIPPLEN® H 650 F

Polypropylene Homopolymer

MOL Petrochemicals Co. Ltd.

## Message:

TIPPLEN H 650 F is a homopolymer polypropylene for the production of biaxially oriented films designed for high speed production. The grade does not contain any slip or antiblocking agents. The grade has low ash content.

TIPPLEN H 650 F is Ca-stearate free and it is particularly suitable for metallization both in monolayer and in coextruded structures.

BOPP films made from TIPPLEN H 650 F have good mechanical properties, high impact strength and puncture resistance even at low temperatures. The BOPP film forms an excellent barrier against moisture, oils and oxidation and features good optical properties. Monolayer or coextruded films with a thickness range of 0.01 - 0.04 mm are used for packaging.

TIPPLEN H 650 F is suitable for food contact. The product complies with Food Contact Regulations.

General Information			
Features	Food Contact Acceptable		
	High Impact Resistance		
	Homopolymer		
	Low Temperature Impact Resistance		
	Metallizable		
	Moisture Barrier		
	Oil Resistant		
	Opticals		
	Oxidation Resistant		
	Puncture Resistant		
	Recyclable Material		
Uses	Bi-axially Oriented Film		
	Film		
Forms	Pellets		
Processing Method	Coextrusion		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	1600	MPa	ISO 527-2
Tensile Stress (Yield, Injection Molded)	35.0	MPa	ISO 527-2
Tensile Strain (Yield, Injection Molded)	9.5	%	ISO 527-2
Flexural Modulus (Injection Molded)	1700	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C, Injection Molded)	6.0	kJ/m <sup>2</sup>	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	105	°C	ISO 75-2/B
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 240	°C	

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#### Recommended distributors for this material

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