

# Hanwha Total PP RF401

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

## Message:

RF401 is a polypropylene-ethylene random copolymer for conventional chilled roll cast film equipment. Optimum balance between optical properties and physical strength has been made in this grades.

General Information			
Features	Good Processing Stability Good Strength High Clarity Opticals Random Copolymer		
Uses	Cast Film Food Packaging Stationary Supplies		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Cast Film Coextrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	31.4	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	500	%	ASTM D638
Flexural Modulus <sup>3</sup>	981	MPa	ASTM D790
Coefficient of Friction	0.80		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	μm	
Tensile Strength			ASTM D882
MD : Yield,30 μm	19.6	MPa	
TD : Yield,30 μm	39.2	MPa	
Tensile Elongation - MD (Break, 30 μm)	500	%	ASTM D882
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	59	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed)	95.0	°C	ASTM D648
Vicat Softening Temperature	130	°C	ASTM D1525 <sup>4</sup>
Melting Temperature	142	°C	DSC
Optical	Nominal Value	Unit	Test Method
Haze (30.0 μm)	1.8	%	ASTM D1003
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	Loading 1 (10 N)		

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