

# Hanwha Total PP RF402

Polypropylene

HANWHA TOTAL PETROCHEMICALS Co., Ltd.

## Message:

RF402 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			
Additive	Medium Slip		
Features	Good Processing Stability		
	Good Strength		
	High Clarity		
	Medium Slip		
	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)	33.3	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	500	%	ASTM D638
Flexural Modulus <sup>3</sup>	981	MPa	ASTM D790
Coefficient of Friction	0.20		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	
Tensile Strength			ASTM D882
MD : Yield,30 µm	20.6	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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