

# TOTAL Polypropylene PPH 3272

Polypropylene Homopolymer

TOTAL Refining & Chemicals

Message:

Polypropylene 3272 complies with all application FDA regulations for food contact applications.  
Applications: 3272 is recommended in orientation processes for manufacture of packaging tapes and films.  
Processing: 3272 processes on oriented film extrusion equipment with typical melt temperatures of 450°F-525°F (232°C-274°C).

General Information			
Features	Homopolymer		
	Compliance of Food Exposure		
Uses	Films		
	Strap		
	Directional film		
Agency Ratings	FDA Food Exposure, Not Rated		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.2	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Elastic Modulus - MD (Tenter-frame Oriented Film)	2410	MPa	ASTM D882
Elastic Modulus - TD (Tenter-frame Oriented Film)	4140	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Fracture, sheet cloth frame directional membrane	152	MPa	ASTM D882
TD: Fracture, sheet cloth frame directional membrane	241	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, sheet cloth frame directional membrane	150	%	ASTM D882
TD: Fracture, sheet cloth frame directional membrane	60	%	ASTM D882
Water Vapor Transmission Rate (38°C, 90% RH, 25 µm)	4.7	g/m <sup>2</sup> /24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	163	°C	DSC
Optical	Nominal Value	Unit	Test Method

Gloss (45°, Tenter-frame Oriented Film)	85		ASTM D2457
Haze (Tenter-frame Oriented Film)	1.0	%	ASTM D1003
Extrusion	Nominal Value	Unit	
Melt Temperature	232 - 274	°C	

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

