

Low Residuals. TOTAL Polypropylene 3271 utilizes the new TOTAL Polypropylene proprietary process technology to provide extremely low residuals for improved color stability and clarity.

Slip/Antiblock. TOTAL Polypropylene 3271 is available with custom slip and antiblock packages.

FDA. TOTAL Polypropylene 3271 complies with all application FDA regulations for food contact applications.

Recommended Applications. TOTAL Polypropylene 3271 is recommended in orientation processes for manufacture of packaging tapes and films.

Processing. TOTAL Polypropylene 3271 resin processes on oriented film extrusion equipment with typical melt temperatures of 450°F-525°F (232°C-274°C). Call the nearest TOTAL Polypropylene Sales office for additional information.

<u>Resin Properties</u>	<u>Typical Values</u>	<u>ASTM Methods</u>
Melt Flow, g/10 min.	1.5	D-1238 Condition 230°C/2160G
Density, g/cc	0.905	D-1505
Melting Point, °F (°C)	325 (163)	DSC ⁽²⁾
<u>Film Properties, Oriented</u>^{(1) (3)}		
Haze, %	1.0	D-1003
Gloss, 45°, %	85	D-2457
Ultimate Tensile, psi MD (psi TD)	22,000 (35,000)	D-882
Tensile Modulus, psi MD (psi TD)	350,000 (600,000)	D-882
Elongation, % MD (TD)	150 (60)	D-882
WVTR, g/100 sq-in/24 hrs./mil @ 100°F, 90% RH	0.3	F-1249-90

- (1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
- (2) MP determined with a Differential Scanning Calorimeter. Test procedure available upon request.
- (3) Tenter-frame oriented film.

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All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of TOTAL products must be guided by the users own methods for selection of proper formulation. TOTAL PETROCHEMICALS USA, INC. disclaims any responsibility for misuse or misapplication of its products. TOTAL MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TOTAL'S liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.