

Total PPH 3270 Polypropylene Homopolymer, High Crystallinity, Low Melt Flow Film Grade

Category : Polymer , Film , Thermoplastic , Polypropylene (PP) , Polypropylene, Film Grade

Material Notes:

Low Residuals TOTAL Polypropylene 3270 utilizes the TOTAL Polypropylene proprietary process technology to provide extremely low residuals for improved color stability and clarity. Slip/Antiblock. 3270 is available with custom slip and antiblock packages FDA. 3270 complies with all applicable FDA regulations for food contact use. Recommended Applications. TOTAL Polypropylene 3270 is recommended in orientation processes for manufacture of packaging tapes and films that benefit from improved stiffness and barrier protection. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPH-3270-Polypropylene-Homopolymer-High-Crystallinity-Low-Melt-Flow-Film-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.910 g/cc	0.910 g/cc	ASTM D1505
Water Vapor Transmission	3.10 g/m ² /day @Temperature 37.8 °C	0.200 g/100 in ² /day @Temperature 100 °F	90% RH; ASTM F1249-90
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 230 °C	2.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	150 %	150 %	ASTM D882
Film Elongation at Break, TD	60 %	60 %	ASTM D882
Film Tensile Strength at Break, MD	193 MPa	28000 psi	ASTM D882
Film Tensile Strength at Break, TD	269 MPa	39000 psi	ASTM D882
1% Secant Modulus, MD	2900 MPa	420000 psi	ASTM D882
1% Secant Modulus, TD	4830 MPa	700000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	DSC

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ASTM D1003
Gloss	85 %	85 %	at 45°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	232 - 274 °C	450 - 525 °F	Oriented Film Extrusion

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