

TOTAL Petrochemicals Polypropylene M3661 is an isotactic form of homopolymer polypropylene made via TOTAL proprietary metallocene catalyst technology.

FDA. M3661 complies with FDA regulations Title 21 CFR Section 177.1520 (c) 3.1 and may be used under these provisions for food contact and packaging.

Recommended Applications. M3661 is a medium molecular weight material recommended for cast film extrusion. However, due to its unique and interesting properties, other applications may exist.

Processing. M3661 is a lower crystallinity, narrower molecular weight distribution product than conventional polypropylene. Cast films produced from M3661 exhibit outstanding optical properties and toughness compared to standard materials. Call the nearest TOTAL Petrochemicals Polypropylene Sales Office for additional information.

<u>Resin Properties</u> ⁽¹⁾	<u>Typical Value</u>	<u>ASTM Method</u>
Melt Flow, g/10 min.	14	D-1238
Melt Point, °F(°C)	302 (150)	DSC ⁽²⁾

Physical Properties⁽¹⁾ Non-oriented film – 2 mil (50 microns)

Ultimate Tensile MD, psi (M Pa)	5,800 (40)	D-882
Ultimate Tensile TD, psi (M Pa)	5,500 (38)	D-882
Ultimate Elongation MD, % (TD,%)	720 (810)	D-882
1% Secant Modulus MD, psi (M Pa)	81,000 (560)	D-882
1% Secant Modulus TD, psi (M Pa)	82,000 (570)	D-882
Haze, %	0.4	D-1003
Gloss @ 45%	81	D-2457

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

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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 miss application 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.