



TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 3453HD

Technical Data Sheet
Polypropylene – Homopolymer
Produced in the United States

Description

Low Residuals. Polypropylene 3453HD utilizes proprietary process technology to provide extremely low residuals for improved color stability and clarity.

Slip/Antiblock. 3453HD contains a custom antiblock package.

FDA. 3453HD complies with all applicable FDA regulations for food contact applications.

Recommended Applications. 3453HD is recommended for use in coextruded film processes for manufacture of packaging films.

Processing. 3453HD resin processes on film extrusion equipment with typical melt temperatures of 450-525°F (232-274°C).

Made to Order Grade: Two railcar minimum order; take or pay agreement required; 90-day minimum lead time

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10min	4.5
Mechanical Properties			
Ultimate Tensile	D-882	psi	8,000
1% Secant Modulus	D-882	psi	115,000
Elongation at Break	D882	%	500
Dart Impact (F50)	D-1709	g/mil	20
Thermal Properties^{(1) (2)}			
Melting Point	DSC	°F (°C)	325 (163)
Other Physical Properties			
Density	D-1505	g/cc	0.905
Moisture Vapor Transmission @ 100°F 90%RH	E-96	g/100 in ² /24hrs/mil	0.7

(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) 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 TotalEnergies products must be guided by the users own methods for selection of proper formulation. TotalEnergies Petrochemicals & Refining USA Inc. disclaims any responsibility for misuse or misapplication of its products. TotalEnergies MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TotalEnergies' 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.

Polypropylene

