

ExxonMobil™ HDPE HD 7957.04

High Density Polyethylene Resin

Product Description

HD 7957.04 is a high molecular weight HDPE film resin. Films made from HD 7957.04 exhibit excellent tensile properties, as well as high stiffness. HD7957.04 is particularly suited for draw tape applications.

General

Availability ¹	▪ Latin America	▪ North America
Applications	▪ Draw Tape	
Revision Date	▪ 10/01/2013	

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.959 g/cm ³	0.959 g/cm ³	ASTM D1505
Melt Index ² (190°C/2.16 kg)	0.060 g/10 min	0.060 g/10 min	ASTM D1238
High Load Melt Index (190°C/21.6 kg)	10 g/10 min	10 g/10 min	ASTM D1238

Thermal

	Typical Value (English)	Typical Value (SI)
Melting Temperature	272 °F	133 °C

Film Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Film Thickness - Tested	1 mil	13 µm	
Tensile Strength at Yield MD	6000 psi	41 MPa	ASTM D882
Tensile Strength at Yield TD	5200 psi	36 MPa	ASTM D882
Tensile Strength at Break MD	13000 psi	90 MPa	ASTM D882
Tensile Strength at Break TD	11000 psi	80 MPa	ASTM D882
Elongation at Break MD	310 %	310 %	ASTM D882
Elongation at Break TD	370 %	370 %	ASTM D882
Secant Modulus MD - 1% Secant	180000 psi	1200 MPa	ASTM D882
Secant Modulus TD - 1% Secant	180000 psi	1300 MPa	ASTM D882
Dart Drop Impact	280 g	280 g	ASTM D1709A
Elmendorf Tear Strength MD	9 g	9 g	ASTM D1922
Elmendorf Tear Strength TD	20 g	20 g	ASTM D1922

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

Processing Statement

Film (0.5 mil/ 12.7 micron) made from HD 7957.04 on a 1.97 inch (50mm) blown film line with a 4:1 blown-up ratio, a 7.5:1 stalk to die diameter ratio, a melt temperature of 370°F (188°C), a 59 mil (1.5mm) die gap at a rate of 10.75 lbs/hr/in die circumference (1.92 kg/hr/cm).

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

² Value reported is an estimate based on ExxonMobil's correlation from melt flow rate data measured at other standard conditions, based on ASTM D 1238.

