

ExxonMobil HDPE

HD 7960.13

HMW Blown Film Resin

Description

HD 7960.13 is a high molecular weight HDPE blown film resin.

Films made from HD 7960.13 exhibit excellent impact and toughness properties, as well as high stiffness. HD 7960.13 is particularly recommended for films less than 0.5 mil in thickness.

Applications

- Retail carry-out sacks
- Merchandise bags
- Institutional can liners
- Consumer trash bags

Additive Package	Antiblock	Slip	Thermal Stabilizer
HD 7960.13	No	No	Yes

Resin Properties	Test Based On	Typical Value / Unit	
Melt Index	ASTM D 1238	0.06 g/10 min	
Melt Flow Rate (190°C, 21.6kg)	ASTM D 1238	10 g/10 min	
Density	ExxonMobil Method	0.952 g/cm ³	
Peak Melting Temperature	ExxonMobil Method	129 °C	264 °F

Film Properties¹ (@ thickness 13 μ (0.5 mil))

Tensile Strength at Yield	MD	ASTM D 882	37 MPa	5400 psi
	TD		31 MPa	4450 psi
Tensile Strength at Break	MD	ASTM D 882	82 MPa	11900 psi
	TD		75 MPa	10800 psi
Elongation at Break	MD	ASTM D 882	275 %	
	TD		343 %	
1% Secant Modulus	MD	ASTM D 882	993 MPa	144000 psi
	TD		1060 MPa	154000 psi
Dart Drop Impact Strength, F50		ASTM D 1709A	300 g	
Elmendorf Tear Strength	MD	ASTM D 1922	9 g	
	TD		22 g	

1. Film data was obtained on 0.5 mil film with a 4.0:1 blow-up ratio and a stalk height of 7x die diameter.

HD 7960.13 can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

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