

ExxonMobil® HD 7845.30

Product Description: HD 7845.30 can be processed on high stalk, pocket extrusion or cast lines. Films made from HD 7845.30 exhibit an excellent stiffness balance. High thermal stability provides excellent film appearance and high quality recycle. HD 7845.30 is particularly recommended as a blend component with LLDPE for stiff clear films.

Physical Properties	Metric	English	Comments
Density	0.958 g/cc	0.0346 lb/in ³	ExxonMobil Method
Melt Flow	0.45 g/10 min @Load 2.16 kg, Temperature 190 °C	0.45 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
High Load Melt Index	30 g/10 min @Load 21.6 kg, Temperature 190 °C	30 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	34.5 MPa	5000 psi	ASTM D882
Film Tensile Strength at Yield, TD	13.1 MPa	1900 psi	ASTM D882
Film Elongation at Break, MD	420 %	420 %	ASTM D882
Film Elongation at Break, TD	4.0 %	4.0 %	ASTM D882
Elmendorf Tear Strength, MD	0.354 g/micron	9.00 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	30.7 g/micron	780 g/mil	ASTM D1922
Dart Drop	>= 1.57 g/micron	>= 40.0 g/mil	ASTM D1709
Film Tensile Strength at Break, MD	82.7 MPa	12000 psi	ASTM D882
Film Tensile Strength at Break, TD	36.5 MPa	5300 psi	ASTM D882
1% Secant Modulus, MD	1100 MPa	160000 psi	ASTM D882
1% Secant Modulus, TD	1590 MPa	230000 psi	ASTM D882

Descriptive Properties			
Features	Thermal Stabilizer		