



Innovative non-barrier liquid packaging solution

Innovative non-barrier liquid packaging solution using Exceed™ and Enable™ performance PE providing outstanding optical properties and excellent balance of stiffness and toughness.



Improved
dart drop impact



Excellent haze



Improved MD 1%
secant modulus



Comparable sealing

Low density polyethylene (LDPE) has played a significant role in the development of flexible packaging solutions. Due to the unique characteristics of LDPE, it has been predominantly used in various types of liquid packaging applications. LDPE is characterized by high shear thinning behavior resulting in lower melt pressures compared to other types of PE used in the same application. LDPE is also characterized by high zero shear viscosity which imparts improved bubble stability in the film during the extrusion process. LDPE also provides higher peak seal strength due to the molecular architecture.

In terms of mechanical properties pure LDPE is not sufficient to impart required stiffness and toughness properties to a film at a given thickness. ExxonMobil has developed an innovative solution for non-barrier liquid packaging solution without incorporating LDPE using Exceed™ and Enable™ performance polymers

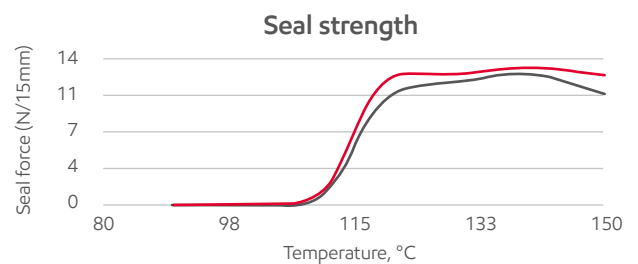
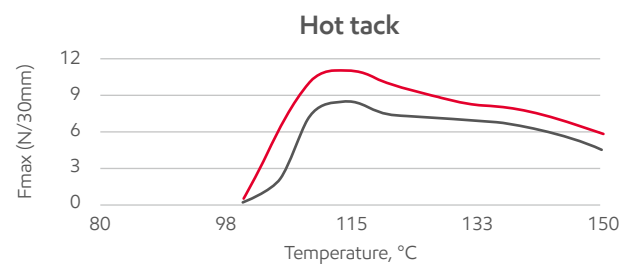
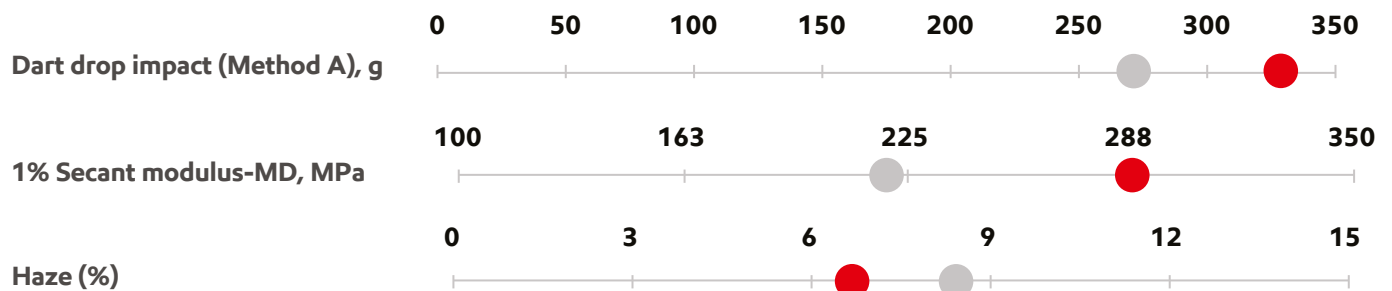
Novel non-barrier liquid packaging solution

Market reference with up to 22% LDPE

Solution based on Exceed™ and Enable™ performance PE



LLDPE LDPE Enable™ 4002 Exceed™ 1018 HDPE# Exceed™ 1012



● Solution based on Exceed™ and Enable™ performance PE ● Market reference with up to 22% LDPE

Excellent balance of stiffness and toughness with enhanced optical properties and comparable sealing

MI: 0.7 g/10min, Density: 0.961g/cc

Test methods

Test	Test Method based on
Tensile test at RT (MD 1% Secant Modulus)	ExxonMobil Method
Dart drop impact	ExxonMobil Method
Seal strength	ExxonMobil Method
Hot tack	ExxonMobil Method
Total haze	ExxonMobil Method

KABRA
ExtrusionTechnik

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