Marlex® HD55110 Polyethylene

HIGH DENSITY POLYETHYLENE (HDPE)

HDPE HD55110 is a bimodal high density polyethylene with a particular molecular design developed with MarTECH ADL Technology

Enhanced processing

- HD 55110 is especially dedicated for the production of high mechanical performances blown film of various thicknesses even down to below 6 µm in high neck configuration with excellent gauge control and bubble stability at high output.

Typical applications for HD55110 include:

- Thin films & very thin films such as - Bin liners, refuse bags, protection films, films on the reel, carrier bags,
- Blend and co-extrusion with LLDPE/LDPE such as for instance – heavy duty bags, mattress bags, down gauging enhancer
- Specialty film such as – bitumen films, paper like films

This material meets or exceeds:

- ASTM D 882
- ASTM D 1709
- ASTM D 1922

Physical Properties	Original Value
Specific Gravity	0.955 g/cc
Thickness	>= 10.0 microns
	12.0 microns
Melt Flow	0.30 g/10 min
	@Load 5.00 kg,
	Temperature 190 °C
	11 g/10 min
	@Load 21.6 kg,
	Temperature 190 °C
Mechanical Properties	**Original Value**
Film Tensile Strength at Yield, MD	39.0 MPa
Film Tensile Strength at Yield, TD	30.0 MPa
Film Elongation at Break, MD	308 %
Film Elongation at Break, TD	460 %
Elmendorf Tear Strength, MD	0.600 g/micron
Elmendorf Tear Strength, TD	4.60 g/micron
Dart Drop Test	170 g
Film Tensile Strength at Break, MD	64.0 MPa
Film Tensile Strength at Break, TD	54.0 MPa
Thermal Properties	**Original Value**
Melting Point	132 °C
Vicat Softening Point	130 °C
Processing Properties	**Original Value**
Processing Temperature	180 - 230 °C

Note: Above data is based on information provided by Licensor and it is not to be construed as specification.