



Product: High Density Polyethylene (HDPE)

Grade: Film

Trade Name: HFI 5110

Typical Applications

HFI 5110 is recommended for blown film extrusion. This product is suggested for the manufacture of high strength grocery sacks, shopping bags and high quality thin films for multi-wall sack liners and replacement for thin paper products. Films produced with this product can be readily treated and printed to give high quality graphics.





Asia Petrochemicals LLC

TDS FOR HFI 5110

PRODUCT DESCRIPTION

HFI 5110 is a high molecular weight, high density polyethylene copolymer which has a broad molecular weight distribution. The design of the product, molecular architecture and density, gives it a unique combination of easy extrusion and high melt strength with strong physical properties which makes it suitable for producing thin films with excellent strength and rigidity.

Process conditions:

Film properties taken from 20 µm blown film extruded at a melt temperature of 220°C,

Blow-up ratio of 4:1

Additive: Antioxidant – Heat stabilizer - Zinc Stearate

Packing: 25 Kg plastic bag

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Density	ISO 1183	kg/m ³	951
MFR (190°C/21.6kg)	ISO 1133	dg/min	10
Tensile Modulus	ISO527-1,2	MPa	1050
Tensile Strength(MD)	ISO 527-1,3	MPa	55
Tensile Strength(TD)	ISO 527-1,3	MPa	55
Tensile Strain at Break(MD)	ISO 527-1	%	580
Tensile Strain at Break(TD)	ISO 527-1	%	620
Tensile Stress at Yield	ISO 527-1	MPa	26
Tensile Strain at Yield	ISO 527-1	%	10
Elmendorf tear strength(MD)	ISO 6383-2	mN	250
Elmendorf tear strength(TD)	ISO 6383-2	mN	800
Melting Point	ISO 3146	°C	132
Vicat Temp,(A50,50°C/h,10N)	ISO 306	°C	127

For further information please visit <http://www.asia-petrochem.com> or send an enquiry to info@asia-petrochem.com

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