



HDPE FILM

HFI 5110

High Density Polyethylene

Product Description

HFI5110 is a high molecular weight, high-density polyethylene with broad molecular weight distribution specially developed for producing thin films with excellent strength and rigidity. This product is suitable for manufacture of high strength grocery sacks, shopping bags and high quality thin films for uni/multi-wall packaging. Films produced with this grade can be readily treated and printed to give high quality graphics. HFI5110 has been manufactured under Basell license.

Typical Properties	Typical Value 1	Unit	Test Method
Physical			
High Load Melt Flow Index (190oC/ 21.6 kg)	10	g/10 min	ISO 1133
Density 2	0.951	g/cm ³	ISO 1183
Mechanical 3			
Tensile Modulus of Elasticity	1050	MPa	ISO 527-1, -2
Tensile Strength (MD)	55	MPa	ISO 527-1, -3
Tensile Strength (TD)	55	MPa	ISO 527-1, -3
Tensile Strain at Break (MD)	580	%	ISO 527-1, -3
Tensile Strain at Break (TD)	620	%	ISO 527-1, -3
Tensile Stress at Yield	26	MPa	ISO 527-1, -3
Tensile Strain at Yield	10	%	ISO 527-1, -3
Elmendorf Tear Strength (MD)	250	mN	ISO 6383-2
Elmendorf Tear Strength (TD)	800	mN	ISO 6383-2
Thermal			
Melting Temperature	132	°C	ISO 3146
Vicat Softening Temperature (Method A/10N)	127	°C	ISO 306
Recommended Process Conditions 4			
Extruder temperature profile: 200-235 °C	Blow up ratio: 3-5	-	-
Film thickness: 15-50 um	-	-	-

Producer: Arya Sasol Polymer Co. (ASPC)



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