

## Product Data Sheet

# HFI 5110

High Density Polyethylene

### Product Description

HFI 5110 is a high molecular weight, high-density polyethylene with broad molecular weight distribution and 1-hexene as a co-monomer, specially developed for producing thin films with excellent strength and rigidity. This product is suitable for manufacturing 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. HFI 5110 has been manufactured under Basell license.

### General Information

<b>Status</b>	Commercial: Active	
<b>Application</b>	Blown film extrusion- Uni/multi wall packaging- High quality thin films- Shopping bags- High strength grocery sacks.	
<b>Form(s)</b>	Pellet	
<b>Attribute</b>	High tear resistance High melt stability	High quality graphic printing
<b>Additives</b>	Antioxidant: Yes Zinc Stearate: Yes	Antiblock: No Slip Agent: No

Typical Properties	Typical Value <sup>1</sup>	Unit	Test Method
<b>Physical</b>			
High Load Melt Flow Index (190°C/ 21.6 kg)	10	g/10 min	ISO 1133
Density <sup>2</sup>	0.951	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical <sup>3</sup></b>			
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

