



EXPERIENCE CREDIBLE PROCESS

High Density Polyethylene Specification

Grade 1 (Film Grade, HFI 5110)

Supplier 1

NO.	Typical Properties	Typical Value ¹	Unit	Test Method
Physical				
1	High Load Melt Flow Index (190°C / 21.6 kg)	10	g/10 min	ISO 1133
2	Density	0.951	g/cm ³	ISO 1183
Mechanical				
3	Tensile Modulus of Elasticity	1050	MPa	ISO 527-1,2
4	Tensile Strength (MD)	55	MPa	ISO 527-1,3
5	Tensile Strength (TD)	55	MPa	ISO 527-1,3
6	Tensile Strain at Break (MD)	580	%	ISO 527-1,3
7	Tensile Strain at Break (TD)	620	%	ISO 527-1,3
8	Tensile Stress at Yield	26	MPa	ISO 527-1,3



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Grade 2 (Pipe Grade, HEX 4460 PE80)

Supplier 1

NO.	Typical Properties	Typical Value ¹	Unit	Test Method
Physical				
1	Melt Flow Index (190°C / 5 kg)	0.33	g/10 min	ISO 1133-1
2	Melt Flow Index (190°C / 21.6 kg)	10	g/10 min	ISO 1133-1
3	Density	0.944	g/cm ³	ISO 1183
4	OIT (200 °C)	>30	min	ISO 11357-6
Other				
5	FNCT (3.5 Mpa, 2% Arcopal, 80 °C)	>150	h	ISO 16770



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Grade 3 (HBM 4265)

Supplier 1

NO.	Typical Properties	Typical Value ¹	Unit	Test Method
Physical				
1	High Load Melt Flow Index (190°C / 21.6 kg)	6.5	g/10 min	ISO 1133-1
2	Density	0.942	g/cm ³	ISO 1183
Mechanical				
3	Tensile Modulus	800	MPa	ISO 527-1,2
4	Tensile Stress at yield	24	MPa	ISO 527-1,3
5	Tensile Strain at yield	10	%	ISO 527-1,3
7	Tensile Impact Strength	160	KJ/m ²	ISO 8256/1A

Info@tidotsoil.com
www.tidotsoil.com