

Polyethylene Grades from ZEROIDS NIGERIA

Product

Grade	Property	MFI @ 190 °C/ 2.16kg	Solid Density	Tensile Strength at Yield (MD/TD)		Elongation at Break		Flexural Stiffness	Tensile Impact		Hardness (Shore)	Tear Strength (Elmendorf) MD/TD	Vicat Softening Point, 10 N	Environ, Stress Crack Resistance	Application
				ASTM 1505	ASTM 638	ASTM 638	ASTM 747	ASTM 1822	ASTM 1706	ASTM 1922	ASTM 1525	ASTM D 1693 Cond. C			
				gm./10 min	g / cm ³	Mpa	%	Mpa	J/cm ³	D	g / um	° C	Hr		
Blow Moulding															
HBG00356		0.3	0.956	28.1	960	896	-	67	-	125	-				Recommended for medium size containers like lube oil, edible oils, general purpose, etc.
HBG00346		0.3	0.946	23	675	745	-	64	-	123	-				Excellent ESCR properties. Recommended for small containers like lube oil, detergent, cosmetic, pesticide, pharmaceutical, general purpose, etc.
Raffia, Pipe															
HEG00952		0.9	0.952	24	At Break 1,000		-	18	65	-	123	-			Stretched tapes for woven fabric, jumbo bags, tarpaulins, monofilaments for rope, etc.
HPG00340		0.28	0.942	20	800	580	-	62	-	119	[F/192 h]				Small/medium diameter pipe for potable water system, OFC ducts, sewage and irrigation areas.
Injection Moulding															
HIG07060		7.0	0.958	29	1200	965	10	65	-	129	-				Tote boxes, crates, luggage shells, chair shells, etc.
HIU07060		7.0	0.958	29	1200	965	10	65	-	129	-				UV stabilized grade and recommended for Beverages crates, tote boxes, crates, luggage shells, chair shells, etc.
HIG20060		20.0	0.958	23	530	758	8	62	-	120	-				Household containers like bucket, mug, general purpose housewares, caps, lids, small size paint pails, etc.
Film															
				ASTM D882	ASTM D882	ASTM D882									
HFG00356		0.35	0.956	26/26	500/800	800/1000	-	-	0.7/25	125	-				Carry bag, grocery bags trash bags, liners, co-extrusion, etc.
HFG00346		0.32	0.946	21/23	600/850	590/680	-	-	0.9/23	121	-				Co-extruded structures, lamination, liners, grocery bags, etc.
Product															
Grade	Property	MFI @ 190 °C/ 2.16kg	Solid Density	Tensile Strength at Yield (MD/TD)	Elongation at Break (MD/TD)	Ultimate Tensile Strength (MD/TD)	Tensile Modulus (MD/TD)	Dart Impact strength F50 **	Tear Strength (Elmendorf) MD/TD	Vicat Softening Point, 10 N					Application

LINEAR LOW DENSITY POLYETHYLENE	Test Method	ASTM D1238	ASTM 1505 D	ASTM 882 (1) D	ASTM 882 D	ASTM 882 D	ASTM 882 D	ASTM 1709 D	ASTM 1922 D	ASTM 1525 D			
	Unit	gm./10 min.	g / cm ³	Mpa	%	Mpa	Mpa	g/um	g/ um	° C			
	Film												
	BFY00919		0.9	0.919	11/11	800/900	38/34	220/245	3.5	5/8	98	-	With slip & antiblock. Suitable for heavy duty firms for industrial liners, general purpose film, liquid packaging, lamination film etc.
	BFG00919		0.9	0.919	11/11	350/850	53/35	220/276	3.2	1.2/26	98	-	No slip. Stretch wrap, lamination, co-extrusion, etc.
	BFY01419		1.4	0.919	16/12	400/800	40/29	-	2.7	1.9/16	98	-	With slip & antiblock. General purpose film, liners, over wraps, etc.
	BFG01419		1.4	0.919	16/12	600/900	42/33	200/260	2.2	2.2/18	98	-	No slip. Stretch wrap, lamination, co-extrusion, thin films, etc.
	Rotomoulding												
	Grade	Property	MFI @ 190 °C/ 2.16kg	Solid Density	Tensile Strength at Yield	Elongation at Break	Stiffness Modulus	Tensile Impact	Hardness (Shore)	Environ. Stress Crack Resistance	Vicat Softening Point, 10 N		Application
	Test Method	Unit	ASTM D1238	ASTM 1505 D	ASTM 638 D	ASTM 638 D	ASTM D 747	ASTM 1882 D	ASTM 2240 D	ASTM 1693 Cond. C.	ASTM 1525 D		
Unit		gm./10 min.	g/cm ³	Mpa	%	Mpa	J/cm ²	D	Hr	° C			
BRG04235		4.2	0.932	13.8	900	380	18	65	F50-150h	123	-	Water storage tanks, chemical tanks, loft tanks, milk cans, pallets, refuse carts, storage bins, garbage bins, etc.	

Note

- For films test performed on films of 25 microns thickness.
- Dart impact done on 3.8 cm dart & 66cm Drop Height.
- The above typical properties are not to be constructed as specification and may change without any prior notice.
- The user will be solely responsible for any intended process/ product usage and ZEROIDS NIGERIA does not guarantee or take responsibility for any consequential damage or loss based on the information given above.