

Producer: Quattor / Brazil

HF 4810

Description:

QUATTOR® HF-4810 is a high molecular weight, high-density polyethylene, hexene copolymer, produced through Unipol® process and recommended for blown film extrusion and blow molding of bottles and drums for agricultural products.

Films produced using **QUATTOR® HF-4810** have excellent processability, high bubble stability, and a remarkable sealability.

Bottles and drums obtained using **QUATTOR® HF-4810** exhibit an improved impact resistance and stress cracking resistance (ESCR).

Applications:

Grocery and merchandise bags, trash and can liners, bottles and drums for agricultural products.

PROPERTIES	VALUE	UNIT	ASTM METHOD
PHYSICAL			
MFR (190°C/21.6kg)	10.0	g/10min	D-1238
Density	0.948	g/cm ³	D-792
FILM^A			
Tensile Stress At Yield Point (MD/TD)	25/27	Mpa	D-882
Tensile Stress At Break (MD/TD)	59/43	MPa	D-882
Elongation at Yield (MD/TD)	5/7	%	D-882
Elongation at Break (MD/TD)	562/750	%	D-882
Elmendorf Tear Strength (MD/TD)	9/30	Kgf/cm	D-1922
Dart Drop Impact	141	gf-50%F	D-1709A
1% Secant Modulus (MD/TD)	778/858	Mpa	D-882
MECHANICAL^B			
Tensile Strength at Yield Point	25	Mpa	D-638
Tensile Strength at Break	27	MPa	D-638
Elongation at Yield	10	%	D-638
Elongation at Break	1250	%	D-638
Flexural Modulus (Young)	963	MPa	D-790
Izod impact resistance	224	J/m	D-256
1% Secant Modulus	537	MPa	D-638
Environmental Stress Cracking Resistance-ESCR ^C	> 1000	h-50%F	D-1693
Hardness	61	shore D	D-2240
THERMAL			
Deflection temperature under flexural load at 455Pa-HDT	60	°C	D-648
Vicat Softening Temperature	125	°C	D-1525