BIOPE

General Properties

The R&D progress allows today to produce some of the conventional polymers partially or totally from vegetable resources and no longer from fossil resources.

BioPE grades commercialized by NaturePlast have the same properties as the conventional PE and can be converted on plastic processing standard equipments.

NaturePlast

The natural evolution of plastic

Applications

Processing: extrusion (films), injection molding, extrusion blowing…

Markets: food packaging, various packaging, cosmetics…

Properties

- Properties similar to oil based PE.
- Processing easiness.
- Recyclable in existing PE streams.

Grade	Nature	Biobased carbon %	MFR (g/10 min)	Density (g/cm³)	Flexural modulus (MPa)	Notched Izod Impact (J/m)	Vicat (°C)	HDT (°C)
Test ASTM		**D 6866**	**D 1238**	**D 792**	**D 790**	**D 256**	**D 1525**	**D 648**
Injection								
SHC 7260	HDPE	94	7.2	0.959	1 350	35	126	76
SPB 608	LDPE	95	30	0.915	450	-	79	-
Bottles								
SGD 4960	HDPE	96	0.7	0.961	1 600	89	128	79

Grade	Nature	Biobased carbon %	MFR (g/10 min)	Density (g/cm³)	Strength at break (MPa)	Elongation at break (%)	Tensile modulus (MPa)	Tear strength (gF)
Test ASTM		**D 6866**	**D 1238**	**D 792**	**D 882**	**D 882**	**D 2457**	**D 1922**
Extrusion								
SGM 9450F	HDPE	96	0.33	0.952	85/45	590/740	750/870	58/51
SLL 118	LLDPE	87	1	0.916	50/40	1130/1430	180/200	-/370
SEB 853	LDPE	95	2.7	0.923	30/20	270/1040	-	-/100

Several others references are available; Please come back to us to get information

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