COMPOUNDS

General Properties

Compounds are blends of various bioplastic resins, additives and/or natural fillers or fibers in order to improve initial material properties.

The parameters that we attempt to improve are mechanical, thermal or transformation performances.

NaturePlast

The natural evolution of plastic

Applications

Processing: injection molding, extrusion (profiles, sheets, film…), thermoforming …

Markets: food or industrial packaging, cosmetics, horticulture, technical pieces, sport and leisure, aesthetic parts…

Properties

- Improvement of mechanical or thermal properties, lifetime or processing.

Grade	Properties	Density	MFI (g/10 min)	Optical property	Tensile modulus (MPa)	Tensile elongation at break (%)	Unnotched Charpy impact strenght (kJ/m²)	Thermal property (°C)
Test ISO		**1183**	**1133**		**527**	**527**	**179**	**75-2 ou 306**
Extrusion								
NPC 101	Soft biopolyester	1,21	5 (160°C/2,16kg)	Opaque	94	>590	NC	NC
NPC 102	PLA based	1,23	11 (170°C/2.16kg)	Translucide	1565	79	163	48 (HDT B)
NPC 011	Starch based	1,2 – 1,3	2,5 – 5,5 (190°C, 5kg)	Opaque	NC	600 – 900	NC	NC
NPC 014	PLA based	1,25	< 2 (190°C, 2,16kg)	Translucide	560	330 - 430	NC	70 (Vicat A)
Injection								
NPC 012	Starch based	1,2 – 1,4	20-40 (190°C/2,16kg)	Opaque	NC	NC	140	60 (Vicat A)
NPC 213	PLA based	1,25	/	Translucide	2700	36	/	55 (Vicat A)
NPC 202	PLA based	1,23	63 (170°C/2,16kg)	Transparent	945	251	84	NC

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

VVK GmbH Bambergstr. 21 / D- 53721 Siegburg / Tel : 02241.1460 890 / Fax : 02241.1460 892
www.vvk-biokunststoffe.de HRB 2868 / Ident.Nr. DE123117483