

FPP Eco is made of a unique batch of 100 % A quality recipe. Which contains approx. 97,5 % of high quality Poly Propylene polymers and 2,5 % of carbon black, antioxidants and heat stabilizers. This unique 1 production Eco batch does not differ in flexibility compared to the A quality foil. The surface can contain some small pimples but the UV-Guarantee is still 10 years for the Netherlands.

Material properties	Unit	Test method	Value
Density	g/cm ³	DIN EN ISO 1183-1	0,880 – 0,920
Melt flow range 230/2,16	g/10min	DIN EN ISO 1133	0,15 – 1,0
Carbon black content (TGA)	%	ASTM D 1603	2,0 – 3,0
Carbon black dispersion	-	ASTM D 5596	Category 1 -2
Durability	Unit	Test method	Value
Oxidation resistance	-	DIN EN 14575	Fulfilled
Oxidative induction time (OIT)	min	ASTM D 3895	> 100
Stress crack resistance	h	DIN EN 14576	> 200
Weathering resistance	h	DIN EN 12224	> 3000
Root resistance	-	DIN EN 14416	Fulfilled
Resistance to leaching	-	DIN EN 14415	Fulfilled
Chemical resistance	-	DIN EN 14414	Fulfilled
Microbiological resistance	-	DIN EN 12225	Fulfilled
Functional properties	Unit	Test method	Value
Foldability at low temperatures	°C	DIN EN 495-5	< -60
Dimensional stability	%	DIN EN 1107-2	< 2,0
Methane gas permeability	cm ³ /m ² x d x bar	DIN 53380-2	< 300
Mechanical properties	Unit	Test method	Value
Thickness Tolerance	mm %	DIN EN 1849-2	1,00 +/- 5
Tensile strength at break Tolerance	Mpa	DIN EN ISO 527 Typ5 / 100 mm/min	21 -3
Elongation at break Tolerance	%		800 -100
Tear resistance Tolerance	N/mm	ISO 34, Method B Procedure (a) 50 mm/min	65 -5
Static puncture Tolerance	KN	DIN EN ISO 12236	- -
Bursting pressure	%	DIN 61551	-
Resistance to static loading	-	DIN EN 12730	Fulfilled

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