# **PlastiPET Black NIR**



## Description

Plastirols Amorphous Polyethylene Terephthalate (APET) black NIR is a polymer used for the packaging industry. It has good stiffness. Plastirol has different grades, suitable for high-end foodpackaging, for cosmetic applications and technical applications. This grade does not content cabon black and is therefore good detecteble by waste sorting systems

# **Key features**

## Certifications

The following approvals are available. FSSC 22000, standard 10/2011 EC and its ammendments.

## Printing

PlastiPET Black could be used for printing. This altough needs specific treatment. Please contact our sales department in case printing is required for your application.

## Conversion

Glueing of the film can be done with hotmelt or solvent-based glue. For welding applications (Thermal or ultrasonic) Plastirol has a specific grade available, PlastiPET weldpet, please contact our sales department.

# **Product Availability**

Colour

Black

# Finish

Standard natural gloss. Surface matting by additive possibile

Physical properties	Star	Standart		nit	Value	
Mechanical properties						
E-Modulus	ISO	ISO 527		Pa	2200	
IV value				l/g	0,70 - 0,80	
Thermic properties						
Vicat VST/B/50	ISO	ISO 306		С	77	
Other properties						
Specific weight	ISO	1183	g/cm <sup>3</sup>		1,32	
Water vapour transmission	ASTM	- F1249 g/m2/24h		2/24h	7 *)	
Permeability CO2	ASTM	ASTM - D1434		2-h-bar	125 *)	
Permeability O2	ASTM	ASTM - D1434		2-h-bar	40 *)	
*) 0,40 mm film						
Haze value						
Virgin	ha	haze		%	N/A	
Recycled	ha	haze		6	N/A	
Overall Migration test		Simulant		ondition	Result	
Dry, non fatty food	E. Tenax		10 days, 40°C		suitable	
wet and aqueous food	A. Water	A. Water		s, 40°C	suitable	
sauer food, yoghurt, sauce	B. 3% aceti	B. 3% acetic acid		s, 40°C	suitable	
alcoholic drinks, milk	D1. 50% etha	D1. 50% ethanol		s, 40°C	suitable	
chocolate, cookies, fatty food	D2. 100% ve	D2. 100% vegetable oil		s, 40°C	suitable	
Manufacturing Tolerances						
Film thickness	0.21 to 0.40	0.41 to 0.80	0.81 to 1.20	1.21 to 1.50		
thickness	+/- 7%	+/- 5%	+/- 4%	+/- 3%		
Width	+/- 1mm	+/- 1mm	+/- 2mm	+/- 2mm		

Available options Antiblock, internal or external Antifog treatment ESD coating Coextrusion

# **Additional information**

#### Storage

We recommend to store our films with a maximum of 12 months after delivery without any UV composure. Air humidity between 20% and 70%, temperature between 15 and 25 degrees Celcius.

## **Recyling Circulair**

PlastiPET Black NIR recycled grade is produced with high content of recycled material (30% - 70%), to ensure optimal use of waste materials. Plastirol will facilitate the return of your regrind on demand.

## Thermoforming

To keep PlastiPET Black NIR clear we recommend sheet temperatures of 120 – 165 degrees Celcius. To keep the shrink as low as possible we recommend mould temps around 60 degrees Celcius. Overheating of PlastiPET Black NIR has negative effect to the film because it will start cristallising.

#### **Chemical resistance**

PlastiPET Black NIR shows a good resistance to aqueous solutions of salt, acid and alkalis. It also has good resistance to most solvents, alcohols, fats and oils, although very limited to ketones.

#### Visual aspects

	0 - 299	300 - 500	501 - 999	≥ 1000	*)
black spots PlastiPET black NIR (virgin)	N/A	N/A	N/A	N/A	-
black spots PlastiPET black NIR RQ (recycled grade)	N/A	N/A	N/A	N/A	
*) values refer to a diameter of a circle, in micron measured	•	•			

Plastirol b.v. Part of PAG

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Disclaimer

Above information is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.