

RENYCLE S N101 3030 BK

PROVISIONAL

DESCRIPTION

Partially recycled PA6, injection moulding grade. Black colour.

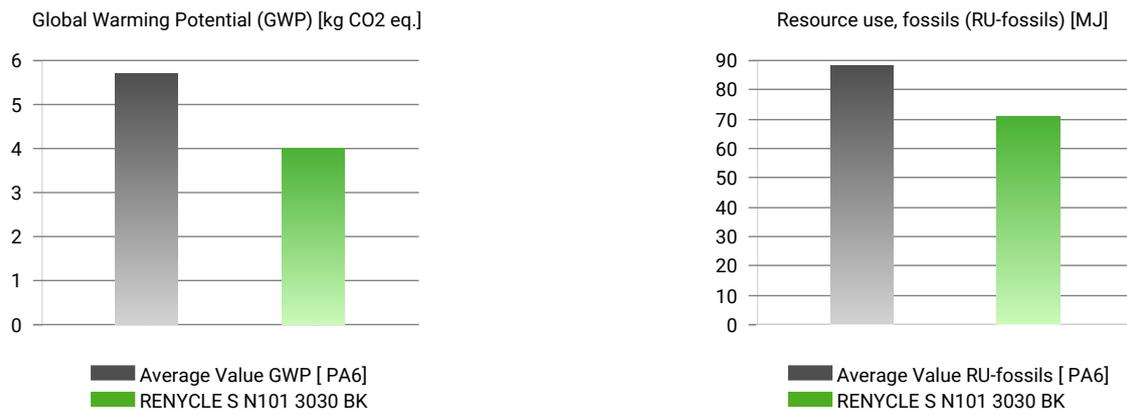
The recycled material has been developed to reduce its environmental impact in comparison to traditional virgin options.

ISO 1043: PA6

REGIONAL AVAILABILITY: Europe

THE CHARACTERISTICS SHOWN HERE ARE PROVISIONAL AND REFLECT THE AVERAGE VALUES OF PROPERTIES MEASURED OVER A LIMITED NUMBER OF PRODUCTION CAMPAIGNS

ENVIRONMENTAL PERFORMANCE



The environmental performance metrics GWP and RU-fossils are defined per kg of material produced and are up to date as of the release date of the Technical Data Sheet.

MATERIAL HANDLING AND PROCESSING

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.15%. Typical conditions with a desiccant drier: temperature 80 ° C, dew point -20 ° C or below, time 2-4 h or more. Special care must be taken to avoid moisture absorption and contamination with other polymers when adding regrind material. Colour variation and mechanical properties reduction may occur and should always be carefully monitored.

Injection Molding Processing Parameters

Melt Temperature
240 - 280°C

Mold Temperature
70 - 80°C

Injection Speed
medium

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet
ROHS compliant 2011/65/EU and following amendments



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PROPERTY	STANDARD	UNIT	VALUE	
			DAM*	Cond**
PHYSICAL PROPERTIES				
Density	ISO 1183	kg/m ³	1130	
Melt Flow Rate	ISO 1133	g/10min		25
Moulding shrinkage - Parallel / Normal	ISO 294-4	%		1.1 / 1.2
Water Absorption, immersion at 23°C	ISO 62	%		9.5
Moisture Absorption 23°C - 50%RH	ISO 62	%		2.7
MECHANICAL PROPERTIES				
Tensile Modulus	ISO 527-2/1A	MPa	3000	
Stress at Yield	ISO 527-2/1A	MPa	75	
Yield Strain	ISO 527-2/1A	%	4.3	
Nominal Strain at Break	ISO 527-2/1A	%	15	
Flexural Modulus	ISO 178	MPa	2900	
Flexural Strength	ISO 178	MPa	115	
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m ²	6	
THERMAL PROPERTIES				
Melting Temperature	ISO 11357-1/-3	°C		220
Heat Deflection Temperature	ISO 75/2Af	°C		60
ELECTRICAL PROPERTIES				
Volume Resistivity	IEC 62631-3-1	Ohm*m	1E13	
Surface Resistivity	IEC 62631-3-2	Ohm	1E12	

*: DAM = Dry As Moulded state according to ISO 16396-2, **: Cond = Conditioned state similar to ISO 1110

1: Temperature [°C] / Load [kg]

2: Melt Temperature [°C] / Mold Temperature [°C] / Cavity Pressure [MPa]

