



Technical data sheet

NPC Nature Plastic Compounds®

Composition

Polymer material	PP Mosten GB 218
Filler material	20 % rye bran
Additive	3 %

Processing method injection molding

Form of delivery granulate

Description

Brief description	PP-Rye
Name	NPC Nature Plastic Compound®
Charge	051114001

Notes

	Norm	Unit	Value
Rheological properties			
Melt-Flow-Rate (230 °C / 2,16 g)	ISO 1133	g/10 min	10
Shrinkage (parallel, normal)	ISO 294	%	
Mechanical properties			
Modulus of elasticity	ISO 527	MPa	2097
Tensile strength	ISO 527	MPa	34
Elongation at break	ISO 527	%	4,7
Breaking stress	ISO 527	MPa	33
Ultimate strain	ISO 527	%	5,3
Charpy impact strength (23 °C)	ISO 179	kJ/mm ²	12
Notched charpy impact strength (23 °C)	ISO 179	kJ/mm ²	2,4
Physical Properties			
Density	ISO 1133	g/cm ³	1,02
Bulk density	ISO 60	g/cm ³	0,4
Absorption of water (23 °C, 85 % H ₂ O)	DIN 5395	%	0,6
Absorption of water (23 °C, 100 % H ₂ O)	DIN 5395	%	1,8

The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.