



PET pellets for fabric accessories Type No.RNAA80

Features

In response to the demands of environmental protection, The world's leading clothing brands start to use sustainable materials to whole clothing.

NAN YA plastic have developed the 100% bottle recycled PET pellets for fabric accessories Type No.RNAA80

RNAA80 is especially designed to have high melt flow capability, and improved the crystallinity, further increase the heat resistance and mechanical strength. RNAA80 is suitable for producing Zipper, Buckle.

Application

Fabric accessories (Zipper, Buckle)

1. 100% bottle recycled RNNA80 is sustainable materials.
2. RNAA80 have better performance than traditional POM material. °
3. Final goal is that the fabrics and accessories are all made of PET polyester materials, reduce the steps of fabric recycling and sorting, and accelerate the development of fabric recycling technology °



Bottle



bottle recycled Pellets

Injection



Zipper and Buckle

Type No.RNAA80 Pellets properties			
Items	Units	Value	Test Method
Intrinsic Viscosity	dl/g	0.64 ± 0.02	ASTM D4603
Specific gravity	g/cm ³	1.36	ASTM D792
Melting point	°C	248 ± 3	ASTM D3418
Mechanical strength			
Items	Units	Value	Test Method
Tensile strength	MPa	63.8	ASTM D638
Elongation	%	4.5	ASTM D638
Flexural strength	Mpa	91.2	ASTM D790
Flexural modulus	Mpa	2650	ASTM D790
Impact strength	Kg-cm/cm	3.6	ASTM D256
HDT	°C	82.7	ASTM D648
Shrinkage	%	0.9	ASTM D955
Zipper properties			
Items	Units	RNAA80	POM
Separating unit crosswise strength	kg	20	12
Chain crosswise strength	kg	47	40
Top stop holding strength	kg	25	15
Repeat test (100 times)	-	Pass	Pass

Processing conditions

1. Processing: injection molding
2. Drying condition: 140~160 °C (2~4 hours)
3. Screw temperature: 260~290 °C
4. Mold temperature: 30~50°C or 130~140°C

Contact information

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