PRODUCT DATA SHEET

POLYPROPYLENE RCE111NP

POLYPROPYLENE RANDOM COPOLYMER FOR INJECTION MOULDING

DESCRIPTION

RCE111NP is a polypropylene random copolymer intended for injection moulding.
This grade is a transition grade with wide tolerances on MFR.

APPLICATIONS

Various injection moulded products

Compounds and master batches

SPECIAL FEATURES

Good flow behaviour

Good stiffness and moderate impact

PHYSICAL PROPERTIES

Property	Typical Value	Test Method
Density	900-910kg/m³	ISO 1183
Melt Flow Rate (230°C/2.16kg)	2.0-80g/10min	ISO 1133
Tensile Modulus (1mm/min)	900MPa***	ISO 527-2
Tensile Strain at Yield (50mm/min)	12%***	ISO 527-2
Tensile Stress at Yield (50mm/min)	22MPa***	ISO 527-2
Charpy Impact Strength, notched (23°C)	4.0KJ/m²***	ISO 179/1eA
Heat Deflection Temperature(0,45MPa)**	75°C***	ISO 75-2
Hardness, Rockwell(R-scale)	80***	ISO 2039-2

*Data should not be used for specification work

** *Measured on injection moulded specimens acc. to ISO 1873-2*
*** Because the grade is a transition grade from homo polymer to block copolymer or from one type block copolymer to another, the grade may be composed of material with different levels of ethylene. Mechanical properties may vary from lot to lot.

Appearance of individual pellets is sometimes different depending on ethylene content.

PROCESSING CONDITIONS

RCE111NP is easy to process with standard injection moulding machines.

Following parameters should be used as guidelines:

Melt temperature:	220 - 260°C	
Holding pressure:	200 - 500bar	As required to avoid sink marks
Mould temperature:	20 - 40°C	
Injection speed:	High	

Shrinkage 1 - 2%, depending on wall thickness and moulding parameters

Borouge Pte Ltd
1 George Street, #18-01
Singapore 049145
T +65 6275 4100 F +65 6377 1233

STORAGE

RCE111NP should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

More information on storage can be found in Safety Information Sheet (SIS) for this product

SAFETY

The product is not classified as a hazardous preparation.

Please see our Safety Information Sheet (SIS) for details on various aspects of safety, recovery and disposal of the product, for more information contact your Borouge representative.

RECYCLING

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

RELATED DOCUMENTS

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

Safety Information Sheet
Statement on chemicals, regulations and standards
Statement on compliance to food contact regulations

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