


Datasheet

May/2021

Polypropylene Inspire 153
Description:

Braskem Inspire® 153 is a Polypropylene impact copolymer developed for injection molding and extrusion. It has been designed to offer an excellent balance of processability, stiffness and impact strength, particular for such technical applications where hoop stress performance is required.

Processing conditions:

BRASKEM Inspire® 153 is easy to process with common extrusion and injection molding equipment with conditions depending on the type of extrusion or injection molding conversion technology applied. Recommended melt temperature range for injection molding from 210 to 260°C and in extrusion from 200 to 230°C.

Applications:

Storm water management systems, Sheets, household products, Automotive article, Appliances

Processes:

Injection molding., General extrusion.

Control Properties

Feature	Method	Units	Values
Melt Flow Rate (230°C/2.16 kg)	ISO 1133	g/10 min	2.2

Typical Properties^a

Feature	Method	Units	Values
Density	1183-1	g/cm ³	0.900
Flexural Modulus	178	MPa	1450
Tensile Strength at Yield	527-1	MPa	28
Tensile Elongation at Yield	527-1	%	10
Notched Charpy Impact Strength at 23°C	179	kJ/m ²	9
Notched Charpy Impact Strength at 0°C	179	kJ/m ²	4
Notched Charpy Impact Strength at -20°C	179	kJ/m ²	2.5
Deflection Temperature under Load at 0.455 MPa	75-1/75-2	°C	85
Vicat Softening Temperature at 10 N	306	°C	152

a) Injection molded specimen according to ISO 294.

1. Storage:

Recommended storage is a cool, dry place protected from direct sunlight for maximum of 24 months after production.

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