

Polypropylene

EH1221SYU

Recycled PP Compound

Description

EH1221SYU is a mineral filled elastomer modified polypropylene compound. This material contains 20% post-industrial recycled polymer and is intended for injection molding.

This material provides excellent paintability, very good impact/stiffness balance and low thermal expansion.

Good paintability

High flowability allowing to mold complex-structured parts with very high flow path / wall thickness ratios

Good impact/stiffness balance

Applications

EH1221SYU is intended for following applications:

Automotive exterior applications

Bumpers

Physical properties

Property	Typical value *	Unit	Test method
Density	970	kg/m ³	ISO 1183-1
Flexural modulus	1450	MPa	ISO 178
Charpy impact strength, notched (23 °C)	45	kJ/m ²	ISO 179-1/1eA
Charpy impact strength, notched (-30 °C)	5	kJ/m ²	ISO 179-1/1eA
Heat deflection temperature A (1.80 MPa)	48	°C	ISO 75-2
Melt flow rate (230 °C/2.16 kg)	30	g/10min	ISO 1133-1
Tensile stress at yield	18	MPa	ISO 527-2

* Data should not be used for specification work

Processing techniques

The actual conditions will depend on the type of equipment used. This product is easy to process with standard injection moulding machines. Following parameters should be used as guidelines:

Processing setting	Typical value/range
Feeding temperature	40-80 °C
Mass temperature	220-260 °C
Back pressure	Low to Medium
Holding pressure	30-60 MPa
Mould temperature	30-50 °C
Screw speed	Low to Medium
Flow front speed	100-200 mm/s

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Packaging and storage

EH1221SYU should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which can result in odour generation and colour changes and can have negative effects on the physical properties of this product.

Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available on our website www.borealisgroup.com.

Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency.

Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

Regional Availability

North America

For information on regional availability please contact Borealis Sales Representative.