

Specialty Copolymer

OE5312I

EVA Copolymer

Description

OE5312I is a copolymer of ethylene and vinyl acetate containing 12% vinyl acetate by weight.

Applications

OE5312I is intended for use in industrial applications but shall not be used for packaging.

Physical properties

Property	Typical value *	Unit	Test method
Density	933	kg/m ³	ISO 1183-1
Melt flow rate (190 °C/2.16 kg)	2.5	g/10min	ISO 1133-1
Vinyl acetate content	12	%	Borealis test method
Melting temperature	93	°C	ISO 11357-3
Vicat softening temperature A50 (10 N)	70	°C	ISO 306
Hardness, Shore A ¹	95	-	ISO 868
Hardness, Shore A ²	94	-	ISO 868
Hardness, Shore D ¹	40	-	ISO 868
Hardness, Shore D ²	38	-	ISO 868
Tensile stress at break (250 mm/min)	16	MPa	ISO 527-2
Tensile strain at break (250 mm/min)	771	%	ISO 527-2
Tensile stress at break (50 mm/min)	19	MPa	ISO 527-2
Tensile strain at break (50 mm/min)	773	%	ISO 527-2

* Data should not be used for specification work

¹ After 1s

² After 15s

Processing techniques

OE5312I copolymer shows excellent thermal stability, which allows higher processing temperatures, if needed. Additional stabilization could be required for longer exposure times. Corrosion-protected barrels, screws adapters and dies are recommended, since, at sustained melt temperatures above 230°C ethylene vinyl acetate resins may thermally degrade and release corrosive by-products.

Packaging and storage

OE5312I should be stored in ambient room temperature 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.

Product compliance documents

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

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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.

Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

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