PRODUCT DATA SHEET

Specialty Copolymer

OE5118I

EVA Copolymer

Description

OE5118I is a copolymer of ethylene and vinyl acetate containing 18% vinyl acetate by weight.

Applications

OE5118I is intended for use in industrial applications but shall not be used for packaging.

Physical properties

Property	Typical value *	Unit	Test method
Density	940	kg/m³	ISO 1183-1
Melt flow rate (190 °C/2.16 kg)	0.7	g/10min	ISO 1133-1
Vinyl acetate content	18	%	Borealis test method
Melting temperature	87	°C	ISO 11357-3
Tensile strain at break (250 mm/min)	762	%	ISO 527-2
Tensile stress at break (250 mm/min)	25	MPa	ISO 527-2
Tensile strain at break (50 mm/min)	766	%	ISO 527-2
Tensile stress at break (50 mm/min)	27	MPa	ISO 527-2
Hardness, Shore A [1]	92	-	ISO 868
Hardness, Shore A [2]	91	-	ISO 868
Hardness, Shore D [1]	37	-	ISO 868
Hardness, Shore D [2]	35	-	ISO 868
Vicat softening temperature A50 (10 N)	62	°C	ISO 306

* Data should not be used for specification work

[1] *After 1s*
[2] *After 15s*

Processing techniques

OE5118I 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

OE5118I should be stored in dry conditions at ambient room temperature 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 in 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.borealisevermindes.com.

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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.
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