

Specialty Copolymer

Quentys™ OE2622SI

High Density Polyethylene

Description

Quentys™ OE2622SI is a thermoplastic, reactor made resin designed for easy extrusion of encapsulant film for solar modules. Due to its high purity and suitability for lamination at low temperature, thermoplastic film made from Quentys™ OE2622SI is especially valuable as Perovskite encapsulant.

Quentys™ OE2622SI is designed to be used in combination with a stabilisation package, such as Quentys™ SFUVCLR01-02 from Borealis.

Applications

Quentys™ OE2622SI is intended for following applications:

Photovoltaic Encapsulant Film

Physical properties

Property	Typical value *	Unit	Test method
Density	948	kg/m³	ISO 1183-1
MFR 190°C/2.16kg	10.0	g/10min	ISO 1133-1
Hardness, Shore D ¹	21.7	-	ISO 868
Hardness, Shore D ²	24.8	-	ISO 868
Tensile modulus ³	25	MPa	ISO 527-2
Melting temperature	91	°C	ISO 11357-3
Tensile strain at break (250 mm/min)	979	%	ISO 527-2
Tensile stress at break (250 mm/min)	9.8	MPa	ISO 527-2
Vicat softening temperature A50 (10 N)	38.5	°C	ISO 306

* Data should not be used for specification work

¹ after 15s

² after 1s

³ 250 mm/min

Processing techniques

For production of encapsulant film a typical extrusion temperature of 150 C is suitable. Please contact your Borealis representative for more details.

Packaging and storage

Quentys™ OE2622SI has a shelf life of 24 months from production date if stored in unopened original packages, under dry and clean conditions at temperatures between 10 - 30°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. The product is moisture sensitive.

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.

Quentys™ is a trademark of the Borealis Group



Specialty Copolymer

Quentys™ OE2622SI

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.

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.