



versalis

Provisional Technical Data Sheet

www.versalis.eni.com

info.polyethylene@versalis.eni.com

GREENFLEX®

HS 70

EVA

Ethylene vinyl acetate copolymer

Greenflex HS 70 is a new grade of ethylene vinyl acetate high fluidity and high vinyl acetate content. The high content of vinyl acetate increases the elasticity and the polarity of the polymer, while the high melt index makes it compatible with other types of polymers and additives.

Main Application

Greenflex HS 70 is the basis for applications made by blends with other polymers and in the preparation of hot melt adhesives.

In the compounds, the resin has ability to bind large amounts of mineral filler and may be used in the cable industry self-extinguishing halogen-free or in the sound-proofing panels.

The polymer can be formulated with tackifier resins and waxes for the production of hot melt adhesives.

Main Properties

Resin Properties	Value	Unit	Test Method
Melt Flow Rate (190 °C/2.16 kg)	25	g/10min	ISO 1133
Vinyl acetate content	28	%	Internal method
Density	0.952	g/cm ³	ISO 1183
Melting Point	70	°C	Internal method
Brittleness temperature	<- 80	°C	ASTM D 746
Vicat softening point (1 kg)	40	°C	ISO 306/A

Mechanical Properties *	Value	Unit	Test Method
Tensile stress at yield	3	MPa	ISO 527-3
Tensile stress at break	-	MPa	ISO 527-3
Elongation at break	500	%	ISO 527-3
Flexural modulus	15	MPa	ISO 178
Hardness Shore A	75	-	ISO 868 A
Hardness Shore D	23	-	ISO 868 A

(*) Values are referred to injection moulded specimens. Actual properties are typical and may vary depending upon operating conditions.

Processing notes

Greenflex HS 70 can be processed by conventional compounding equipments.
Operation temperature from 140°C to 190°C is recommended.

Storage and Handling

Greenflex HS 70 is supplied in pellet form. This material may readily be conveyed and bulk fed through equipment designed for conventional pelletised polyethylene resin, provided the equipment is designed to prevent accumulation of the fines and dust particles that are contained in all polyethylene resins. These fines and dust particles can, under certain conditions, pose an explosion hazard. We recommend that the conveying system used be equipped with filters of adequate size, operated and maintained in such a manner to ensure that no leaks develop and earthed adequately. We further recommend that good housekeeping should be practised throughout your facility.

The product should be stored in dry conditions at temperatures below 50°C and protected from sunlight.

Improper storage can initiate degradation which results in odour generation, colour changes and can have negative effects on the physical properties of the product.

Before using this product it is recommended to read and understand the relevant Safety Data Sheet.

Availability

Contact the versalis sales office nearest to you regarding availability and your specific application requirements.

Food Contact Status

Greenflex HS 70 complies with the rules and regulations of the European Union, as well as other countries, regarding the use of plastic materials in food contact applications.
Certificates of compliance are available upon request.

TECHNICAL SERVICE

versalis S.p.A.
Piazza Boldrini, 1
20097 S.Donato Milanese, Italia
Tel. +39 02 520.32087
Fax +39 02 520.52052

Versalis International SA
succursale française
Port 4531 Route des Dunes - BP
59
F-59279 Mardyck

versalis S.p.A.
Via Taliercio, 14
46100 Mantova, Italia
Tel. +39 0376 305667
Fax +39 02 52043

HEADQUARTER

versalis S.p.A.
Piazza Boldrini, 1
20097 S.Donato Milanese, Italia
Tel. +39 02 520.32087
Fax +39 02 520.52052

IMPORTANT: please consult the relevant safety data sheet for more detailed information. The information and data presented herein are to the best of our knowledge true and accurate but no warranty or guarantee, expressed or implied, is made nor is any liability accepted with respect to the use of such information and data.

versalis is available to provide the guaranteed values for each product on demand.