PVC Suspension Homopolymer
Technical Data Sheet

INEOS ChlorVinyls

NORVINYL™ S6706

Description NORVINYL™ S6706 is a medium molecular weight, high bulk density and low porosity vinyl chloride homopolymer produced by a suspension process.

Typical Properties

S6706	Test Method	Unit	Typical Value
K-value	ISO 1628-2		66
Viscosity number	ISO 1628-2	ml/g	110
Apparent Density	ISO 60	g/cm^3	0.570
Particle Size > 250 µm	ISO 4610	%	< 2.0
Particle Size > 63 µm	ISO 4610	%	> 95
Plasticiser Absorption	ISO 4608	%	19
Volatile Content	ISO 1269	%	< 0.3

Note: The property data shown above has been obtained from laboratory tests on representative samples of NORVINYL™ S6706 polymer. Although the values are typical, they are for guidance only, and must not be used as a basis for specifications.

Processing After mixing with appropriate additives, NORVINYL™ S6706 is suitable for extrusion.

Applications NORVINYL™ S6706 is suitable for a range of clear and opaque applications where easy processing, high output and excellent mechanical properties are required.

It is typically used for the following applications:

- Window and other rigid profiles.
- Rigid pipes eg. water pipes, rainwater goods, soil and sewer or land drainage pipes.
- Clear or opaque rigid sheets.
- Rigid duct, conduit and trunking for telecommunications and cable management.

MEDICAL AND FOOD CONTACT APPLICATIONS

Customers are reminded that European Regulation 2011/10/EC requires that plastics materials and articles intended to come into contact with foodstuffs must not contain vinyl chloride monomer in a quantity exceeding 1 mg per kilogram in the final product. Also, these materials and articles must not pass onto foodstuffs which are in contact with such materials and articles, any vinyl chloride detectable by a method complying with the criteria set out in Article 11 of Regulation (EC) No 882/2004.of the European Parliament and of the Council on official controls performed to ensure the verification of compliance with feed and food law, animal health and animal welfare rules In the experience of INEOS Chlorvinyls, compositions based on polymers described in this literature will comply with the requirement when processed in accordance with best known practice.

Furthermore, additives which may be added to INEOS Chlorvinyls' polymers to produce compositions are also subject to requirements according to Regulation 2011/10/EC.

Customers making medical products are reminded that the maximum level of vinyl chloride of 1 mg/kg in the final product is also a requirement of the European Pharmacopoeia Monograph 3.1.1.1. - Materials based on plasticised PVC for containers for Human Blood and Blood Components and Monograph 3.1.1.2. of 2000 – Materials based on Plasticised PVC for tubing used in sets for the transfusion of blood and blood components 3.1.10 – Materials based on non-plasticised PVC for containers for non-injectable, aqueous solutions, 3.1.11.- Materials based on non-plasticised PVC for containers for dry dosage forms for oral administration and 3.1.14. – Materials based on plasticised PVC for containers for aqueous solutions for intravenous infusion.

For customers manufacturing materials that will come into contact with drinking water national regulations apply. Whilst responsibility for compliance lies with the manufacture of the final drinking water contact article, INEOS Chlorvinyls can liaise with national authorities and test laboratories to ensure that information pertaining to its products is used in assessments of suitability for this product area.

Note: It is the responsibility of the customer and producer of the end product to ensure that the final material or article complies with all relevant regulations.

INEOS ChlorVinyls' products are supplied only on the strict understanding that the customer and the producer of the end product will ensure that the regulations have been complied with. If guidance is required regarding the use of NORVINYL™ Polymers in Food Contact, please seek assistance from your sales or technical service representative or visit **www.ineos.com**.

SUSTAINABILITY

INEOS is the leading financial contributor towards the European PVC Voluntary Commitment, VinylPlus. Through this initiative a number of key sustainability challenges are being addressed which continue to contribute towards lowering the environmental footprint of PVC. These commitments are aimed at: achieving higher recycling rates of PVC and developing innovative recycling technologies; addressing any potential concerns about organochlorine emissions; ensuring the sustainable use of additives; improving energy efficiency and the use of renewable sources and raw materials in PVC production; and promoting sustainability awareness throughout the whole PVC value chain. For more detailed information, please visit **www.vinylplus.eu**

As part of the sustainability journey there is increasing interest in the environmental footprint of PVC resin. For example such information is used by life cycle practitioners for the purpose of understanding the various environmental impacts associated with the manufacture of PVC resins. In order to assist in such assessments the European Council of Vinyl Manufacturers, for which INEOS ChlorVinyls is an active member, has published an Environmental Product Declaration (EPD) that is electronically available on : **www.pvc.org/upload/documents/Polyvinylchloride_PVC_Suspension_polymerisation_-_January_2008.pdf**
The data is derived from average performance of all manufacturing sites across Europe and is therefore representative for all NORVINYL™ Suspension PVC resins manufactured by INEOS ChlorVinyls.

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