OWISPOL® 585C

General Purpose Polystyrene - GPPS

Technical Data Sheet

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Previous editions of this document have lost their validity.

CHARACTERISTICS

Owispol® 585C is general purpose polystyrene (GPPS) with excellent optical properties, gloss, high heat resistance and mechanical strength. It is a thermoplastic material designed for extrusion, thermoforming and injection moulding. Product has a form of cylindrical granules of diameter 2.5 to 6 mms.

GENERAL REQUIREMENTS

The product may contain small amounts of granulate finer than that mentioned above of irregular shapes. Presence of any mechanical impurities in the granulate is not allowed. Owispol® 585C is a colourless plastic.

TECHNICAL PARAMETERS AND PROCESSING CONDITIONS

Parameters	Unit	Typical value	Standard/method	Note
Melt mass-flow rate (MFR)	g/10 min	1.4 - 1.6	ISO 1133/H	200 °C; 5 kg
Charpy impact strength	kJ/m^2	14	ISO 179/1eU	23 °C
Vicat softening temperature	°C	100	ISO 306/B50	50 °C/h; 50 N
Residual styrene content	% wt.	0.020	Internal	-
Flammability [1)]	Class	HB	UL 94	1.6 mm
Moulding shrinkage	%	0.2 - 0.5	Internal	-
Processing conditions				
Temperature/Time of drying [2)]	°C/h	70 / 2 - 4	-	hot-air drier
	°C/h	80 / 1	-	drier with a molecular sieve
Injection moulding: Melt temperature	°C	180 - 280	-	-
Injection moulding: Mould temperature	°C	10 - 60	-	-
Extrusion: Melt temperature	°C	200 - 250	-	-

[1)] Tested in Electro-technical testing institute, Prague, Czech Republic.
[2)] For products with high quality of surface.

Guaranteed values of relevant technical parameters of the product are each time agreed upon in the sales contract.

To each shipping lot/delivery a quality certificate including data on properties of the product determined during release control is issued. Scope of the testing which is covered by the quality certificate is each time agreed upon in the sales contract.

PACKAGING

Owispol® is packed into 25 ± 0.2 kg polyethylene bags of nominal dimensions when filled 600 x 400 mm which are placed on wooden pallets of dimensions 1200 x 1000 mm and nominal load capacity 1300 kg, 5 pieces of bags are placed in one layer and maximum 10 layers can be stored on 1 pallet. Pallets are covered and wrapped with polyethylene film.

Product can be also delivered in bulk by road tankers or in the mass of 1000 kgs in inner polyethylene box in octabin cardboard boxes and than stored on the pallets 1150 x 1150 mm of nominal load capacity 1200 kgs.

Use of packaging of other type is also permitted provided that it was previously agreed upon in the sales-contract and the product is protected at least in the same way as in the previously mentioned packaging.

CREDOY®
Uninterruptible Polymer Supply

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Each packaging bears the following information: manufacturer's name and address, product name and grade, net mass, lot number and labelling required by relevant regulations (if needed).

In case of product transported in bulk the above-mentioned information is given in the quality certificate as well as in the sales documents.

TRANSPORTATION

Packaging and transportation are not subject to regulations for hazardous materials transportation (ADR, RID).

Owispol® in unit packaging should be transported with the use of covered means of transport and in accordance with in force regulations on road and rail transport of goods. Transport of Owispol® in bags without pallets, for example placed in containers, is allowed provided that the bags are protected against tear and moving during transport.

Do not transport together with the organic solvents.

STORAGE

Owispol® in bags and octabins should be stored in dry rooms, far from heating equipment, at the temperature not exceeding 35°C, in original tightly sealed containers. It is allowed to store Owispol® in bags placed on platforms in maximum 10 layers, at least 15 cm above the ground. Stacking of octabins containing the product is not allowed. Product transported in bulk after unloading from the tankers should be stored in clean tanks (silos) constructed from the material guaranteeing preservation of the quality of product.

APPLICATION

Injection moulding is used to produce parts with increased thermal and mechanical resistance.

Extrusion is used to produce e.g. shower enclosures panels and biaxially-oriented sheets (BOPS). It is used in the production of lightweight sheets (XPS). It is suitable for blending with high-impact polystyrene (HIPS) and SBS copolymers to increase the thermal resistance of the product e.g. cups for hot drinks.

Owispol® 585C is certified by ISEGA (Germany) as the product allowed to come into contact with foodstuffs in accordance with FDA and BfR regulations.

This document is of an informative character. The information given herein is based on the present state of our knowledge and experience. It makes neither product properties nor qualitative parameters guarantee and cannot be used as a basis of any claims. The information provided cannot be used for any mixtures with any other substances. Product should be transported, stored and used in accordance with valid regulations and good occupational hygiene practice.

Making use of the information as well as product application is beyond the producer control and determination of the safe conditions of use is the sole responsibility of a customer.