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DOKI® POLISTIREN 417

High Impact Polystyrene

Material Description

DOKI® POLISTIREN 417 is elastomer modified high impact polystyrene specially developed for processing by extrusion and thermoforming.

DOKI® POLISTIREN 417 has excellent resistance to hydrocarbons used in the fridge sector as blowing agents for PU insulating foams. This polystyrene grade is characterized by high impact strength and good tensile strength.

DOKI® POLISTIREN 417 is miscible with other DOKI polystyrene grades, but it is not miscible with ABS or SAN plastomers.

DOKI® POLISTIREN 417 is processed in melt temperature range of 160 °C to 230 °C.

Mould shrinkage: 0.4 – 0.6 %

Tool temperature: 20 - 60 °C

Application

- Extruded and thermoformed interior refrigerator walls
- Extruded and thermoformed products intended for food processing industry
- Other general purpose extruded products.

Property ^{1,2}	ISO Standard	Value	Unit
Density	1183	1.05	g/cm ³
Bulk Density	60	0.60	g/cm ³
VICAT softening temperature	306 B/50	89	°C
Tensile strength at yield	527/2	16	MPa
Tensile strength at break	527/2	24	MPa
Elongation at break	527/2	≥ 45	%
Tensile modulus	527/2	1500	MPa
Izod impact resistance, notched	180/4A	11	kJ/m ²
Rockwell hardness	2039	55	Scale R
Melt Flow Rate (condition H)	1133	2.9	g/10 min

¹ Typical values that do not represent specification limit values

² Injection moulded test samples

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Storage and Handling

DOKI® POLISTIREN 417 is packed in polyethylene bags of 25 kg stacked up on wooden pallets having total dimensions of 1700 x 1300 x 1050 mm and total mass of 1290 kg (1250 kg net). The pallets are covered and secured with stretch film. Transport by road tankers is also possible.

DOKI® POLISTIREN 417 should not be exposed to direct sunlight, which can affect its properties. If stored in unfavourable climatic conditions (great temperature variations and high moisture content) moisture can condense in bags.

Physiological Properties

DOKI® POLISTIREN 417 complies with the requirements of the European Directive 2004/19/EC (an amended edition 2002/72/EC), relating to plastic materials and articles intended to come into contact with foodstuffs. **DOKI® POLISTIREN 417** meets the requirements of the European Directive 94/62/EC of the European law on packaging material.

Material Safety Data Sheet is available on www.dioki.hr

Technical Service

Further information is available to **DOKI® POLISTIREN 417** end users at: Tel: ++ 385 1 2483 670; Fax: ++385 1 2483 383; E-mail: dioki@dioki.hr

Sale

All information on the sale of DIOKI's products can be obtained from DIOKI's Commercial Department, Tel: ++385 1 2483 000; Fax: ++385 1 2407 362 or ++385 1 2404 975; E-mail: dioki@dioki.hr, DIOKI d.d., 10 000 Zagreb, Žitnjak bb, CROATIA