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DOKI® POLISTIREN 457

High Impact Polystyrene

Material Description

DOKI® POLISTIREN 457 is elastomer modified high impact polystyrene specially developed for processing by extrusion and thermoforming.

DOKI® POLISTIREN 457 has high impact strength and temperature resistance.

DOKI® POLISTIREN 457 is miscible with other DOKI polystyrene grades. Not miscible with ABS or SAN plastomers.

DOKI® POLISTIREN 457 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 products, mainly cups used for dairy products
- Other thermoformed plastic containers used in food processing industry
- Mixing with other general purpose and high impact DOKI® POLISTIREN grades
- Injection moulded products having small dimensions and thick walls

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	92	°C
Tensile strength at yield	527/2	25	MPa
Tensile strength at break	527/2	28	MPa
Elongation at break	527/2	> 35	%
Tensile modulus	527/2	2200	MPa
Izod impact resistance, notched	180/4A	7.5	kJ/m ²
Rockwell hardness	2039	55	Scale R
Melt Flow Rate (condition H)	1133	3.0	g/10 min

¹ Typical values that do not represent specification limit values

² Injection moulded test samples

TPP-19-01-PS457e.2007

Storage and Handling

DOKI® POLISTIREN 457 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 457 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 457 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 457** 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 457** end users at: Tel: ++ 385 1 2483 670; Fax: ++385 1 2404 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