

# DOKI® PS 417

## High Impact Polystyrene

DIOKI d.d.

### Message:

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.

General Information	
Features	Food Contact Acceptable
	High Impact Resistance
	High Tensile Strength
	Hydrocarbon Resistant
Uses	Appliance Components
	Non-specific Food Applications
	Sheet
Agency Ratings	EC 1907/2006 (REACH)
	EU 2002/72/EC
	EU 2004/19/EC
	EU 94/62/EC
Forms	Pellets
Processing Method	Extrusion
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm <sup>3</sup>	ISO 1183
Apparent Density	0.60	g/cm <sup>3</sup>	ISO 60
Melt Mass-Flow Rate (MFR) (230°C/1.2 kg)	2.9	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.60	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	55		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1500	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	16.0	MPa	
Break	24.0	MPa	
Tensile Strain (Break)	> 45	%	ISO 527-2

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	11	kJ/m <sup>2</sup>	ISO 180/4A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	89.0	°C	ISO 306/B50
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 230	°C	
Die Temperature	20.0 to 60.0	°C	

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#### Recommended distributors for this material

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