



STYROVIT®

102 D

General Purpose Polystyrene

TECHNICAL INFORMATION

DESCRIPTION

STYROVIT® 102 D is a high molecular mass general purpose polystyrene designed for extrusion blending with high impact polystyrene and co-polymers for thermoforming of food package. It is particularly suitable for direct gassing extrusion and producing of biaxially oriented film and sheets.

PROCESSING

STYROVIT® 102 D can easily be processed by extrusion. Recommended melt temperature for processing is 210-240 °C.

APPLICATIONS

Dairy packaging foamed packaging trays, XPS sheet, and panels for shower cubicles, technical parts and profiled foamed surfaces.

STORAGE AND HANDLING

STYROVIT® products should be kept in cool, dry, well-ventilated warehouses away from combustible materials. Avoid direct exposure to sunlight.

FOOD CONTACT INFORMATION

STYROVIT® polystyrene complies with current legislation regarding food packaging.

RECYCLING

All goods made of **STYROVIT®** polystyrene can be recycled by using modern recycling methods.

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PHYSICAL PROPERTIES

PROPERTIES(*)	UNIT	VALUE	STANDARD	
General				
Density	kg/ m ³	1050	ISO 1183	
Bulk density	kg/ m ³	650	ISO 60	
Water absorption	%	<0.1	ISO 62	
Mechanical				
Tensile strength	MPa	50	ISO 527 ASTM D-638	
Flexural modulus	MPa	3360	ISO 527 ASTM D-638	
Izod impact strength	kJ/m ²	2.5	ISO 180/1A ASTM D-256	
Thermal				
Vicat softening temperature	10N-50 °C	°C	99	ISO 306 ASTM D-1525
	50N-50 °C	°C	95	
Melt temperature range	°C	180-250		
Melt flow rate MFR	g/10 min	2	ISO 1133 ASTM D-1238	

(*) Typical properties, not to be construed as specification limits.

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