TECHNICAL DATASHEET PS 125



PRODUCT DESCRIPTION

General purpose polystyrene SABIC® PS 125 is manufactured by continuous mass polymerization of styrene monomer. It is a crystal-like, hard and brittle polymer; medium flow with excellent clarity and higher Vicat and Heat Distortion temperatures allow its use in many different applications.

TRPICAL APPLICATION

It is recommended for the manufacture of a variety of packaging items, namely jewelry and gift boxes; medical supplies such as petri dishes, test tubes and specimen jars, etc. Another important use is in caping the high impact polystyrene coextruded sheet for high surface gloss. It could be blended with impact modifier resin for clear packaging articles.

TYPICAL DATA

Properties		Units SI	Values	Test methods
Polymer properties				
Melt flow rate (MFR)				ASTM D 1238
at 200 °C and 5 kg		g/10 min	7.0	
Density		kg/m³	1050	ASTM D 792
Bulk Density				ASTM D 1895
Method B		kg/m³	600	
Mechanical properties	1)			
Tensile test	2)			ASTM D 638
tensile strength		MPa	43	
tensile elongation		%	2	
tensile modulus		MPa	2598	
Flexural test				ASTM D 790
Flexural modulus		MPa	3529	
Flexural strength		MPa	82	
Izod impact notched at 23 °C	3)	J/m	12	ASTM D 256
Rockwell hardness				ASTM D 785
L-scale		-	95	
M-scale		-	63	
Thermal properties	1)			
Heat deflection temperature				ASTM D 648
Method B, 455 KPa, annealed		°C	90	
Vicat softening temperature				ASTM D 1525
Rate A, 1 kg/50 °C		°C	95	
Flammability rating, UL 94				-
at 1.3 mm and 3.0 mm		Class	HB	

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