

DENKA STYROL MW-1-321

General Purpose Polystyrene

Denka Company Limited

Message:

The high tensile strength of DENKA STYROL MW is achieved through our proprietary macromolecular technologies. It is a well-balanced polystyrene resin, with a high tensile strength as well as good moldability. Overturning the traditional understanding that PS resin is "hard and brittle", this product's applications have been expanded to include large packaging cases (and the like), advancing the world of PS resin and becoming a synonym for ultra-strong PS.

Applications

CD cases, DVD cases, recording media related items, refrigerator trays, pet cages, miscellaneous articles, toys, food packaging etc.

General Information			
UL YellowCard	E49895-241593		
Features	High Strength		
Uses	Food Packaging		
	General Purpose		
	Media Packaging		
	Support Trays		
	Toys		
Agency Ratings	FDA 21 CFR 177.1640		
	JHOSPA Unspecified Rating		
UL File Number	E49895		
Appearance	Clear/Transparent		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.04	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.8	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale, 23°C)	75		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	47.0	MPa	ISO 527-2/5
Tensile Strain (Break)	< 3.0	%	ISO 527-2/5
Flexural Modulus ¹	3300	MPa	ISO 178
Flexural Stress ²	102	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.8	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	74.0	°C	ISO 75-2/A
Vicat Softening Temperature	93.0	°C	ISO 306/B
Flammability	Nominal Value		Test Method

Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (2000 μm)	90.0	%	ISO 13468
Haze (2000 μm)	0.30	%	ISO 14782
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		

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