

DENKA STYROL MF-21-321

General Purpose Polystyrene

Denka Company Limited

Message:

High molecular weight transparent polystyrene resins with superior impact strength

General Information			
UL YellowCard	E49895-241590		
Features	High Flow		
	High Heat Resistance		
Uses	General Purpose		
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)	4.5	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	3350	MPa	ISO 178
Flexural Stress ²	107	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.2	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	78.0	°C	ISO 75-2/A
Vicat Softening Temperature	99.0	°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		

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