

DENKA Transparent Polymer TX-100S

Methyl Methacrylate Styrene

Denka Company Limited

Message:

DENKA Transparent Polymer TX-100S is a Methyl Methacrylate Styrene (MMS) product. It can be processed by injection molding and is available in Asia Pacific, Europe, or North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E49895-241562		
UL File Number	E49895		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	1.8	g/10 min	ISO 1133
Molding Shrinkage (2.00 mm)	0.40	%	Internal Method
Water Absorption (Equilibrium)	0.12	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break)	67.0	MPa	ISO 527-2/5
Nominal Tensile Strain at Break	6.0	%	ISO 527-2/5
Flexural Modulus ¹	3400	MPa	ISO 178
Flexural Stress ²	115	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	2.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	79.0	°C	ISO 75-2/Af
Vicat Softening Temperature	100	°C	ISO 306/B
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
Optical	Nominal Value	Unit	Test Method
Refractive Index ³	1.540		ASTM D542
Transmittance (2000 μm)	92.0	%	ISO 13468-1
Haze (2000 μm)	0.20	%	ISO 14782
Injection	Nominal Value	Unit	
Drying Temperature	70.0 to 80.0	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	190 to 240	°C	
Middle Temperature	190 to 240	°C	
Front Temperature	190 to 240	°C	
Nozzle Temperature	220 to 240	°C	
Mold Temperature	40.0 to 70.0	°C	

NOTE	
1.	2.0 mm/min
2.	2.0 mm/min
3.	NA*D ray

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