

Denka STYROL MW1 Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

"DENKA SYTROL MW" is a well-balanced polystyrene (PS) resin, with a high tensile strength as well as good moldability. Overturning the traditional understanding that PS resin is "hard and brittle," this products 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 Recording media-related items like CD jewel cases, and videotape or audiocassette cases, etc. Refrigerator trays Pet cages Miscellaneous goods/toys Food packaging, etc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Denka-STYROL-MW1-Polystyrene.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Melt Flow	1.9 g/10 min	1.9 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	1.9 g/10 min	1.9 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
Spiral Flow	30.5 cm	12.0 in	200°C; DENKA method
	42.5 cm	16.7 in	240°C; DENKA method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	77	77	ISO 2039-2
Tensile Strength at Break	46.0 MPa	6670 psi	ISO 527-2
Elongation at Break	<= 3.0 %	<= 3.0 %	ISO 527-2
Flexural Strength	51.0 MPa	7400 psi	ASTM D790
	101 MPa	14600 psi	ISO 178
Flexural Modulus	3.30 GPa	479 ksi	ISO 178
Izod Impact, Notched	0.180 J/cm	0.337 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179-2
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	72.0 °C	162 °F	ISO 75-2
Vicat Softening Point	92.0 °C	198 °F	50N; ISO 306
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	210 - 240 °C	410 - 464 °F	H-3
Middle Barrel Temperature	200 - 230 °C	392 - 446 °F	H-2
Front Barrel Temperature	190 - 210 °C	374 - 410 °F	H-1
Nozzle Temperature	210 - 240 °C	410 - 464 °F	
Mold Temperature	38.0 - 60.0 °C	100 - 140 °F	
Injection Pressure	34.5 - 207 MPa	5000 - 30000 psi	
Back Pressure	6.89 - 27.6 MPa	1000 - 4000 psi	

Descriptive Properties	Value	Comments
Falling Weight Test, g/cm	50/37	

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