

Styrolution Terluxe® HD 2822 MABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Transparent, Molded

Material Notes:

Terluxe® HD 2822 is a new standard-injection molding grade based on a MABS polymer. Terluxe® HD 2822 offers a well balanced combination of stiffness and toughness and the high transparency well known in SAN molding compositions. Excellent transparency Good resistance to chemicals Good Stiffness and surface finish High impact strength HD service package available Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Terluxe-HD-2822-MABS.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Water Absorption at Saturation	0.70 % @Temperature 23.0 °C	0.70 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ISO 294-4
Melt Flow	2.0 g/10 min @Load 10.0 kg, Temperature 220 °C	2.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133
	17 g/10 min @Load 21.6 kg, Temperature 220 °C	17 g/10 min @Load 47.6 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	70.0 MPa	10200 psi	ISO 2039-1
Tensile Strength, Yield	48.0 MPa	6960 psi	ISO 527
Elongation at Break	12 %	12 %	ISO 527
Elongation at Yield	4.0 %	4.0 %	ISO 527
Tensile Modulus	2.00 GPa	290 ksi	ISO 527
Flexural Strength	70.0 MPa	10200 psi	ISO 178
Charpy Impact Unnotched	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179
	12.0 J/cm ²	57.1 ft-lb/in ²	ISO 179

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.200 J/cmÂ²	0.952 ft-lb/inÂ²	ISO 179
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	ISO 179
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 - 110 Âµm/m-Â°C	44.4 - 61.1 Âµin/in-Â°F	ISO 11359
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ftÂ²-Â°F	DIN 52612-1
Deflection Temperature at 0.46 MPa (66 psi)	94.0 Â°C	201 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C	194 Â°F	ISO 75
Vicat Softening Point	93.0 Â°C	199 Â°F	50Â°C/h; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	105 Â°C	221 Â°F	50Â°C/h; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Optical Properties	Metric	English	Comments
Refractive Index	1.54	1.54	Sodium D Line; ASTM D 542

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	2.9	2.9	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.014	0.014	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.016	0.016	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 260 Â°C	446 - 500 Â°F	ISO 294
Mold Temperature	60.0 Â°C	140 Â°F	ISO 294
Injection Velocity	200 mm/sec	7.87 in/sec	ISO 294
Drying Temperature	70.0 Â°C @Time >=7200 sec	158 Â°F @Time >=2.00 hour	

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