

Styrolution Terluran® HH-112 Q109 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Description: Injection-molding grade with highest heat resistance, high rigidity and medium impact strength. Information provided by STYROLUTION, which is a joint venture between BASF and INEOS

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Terluran-HH-112-Q109-ABS.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	6.3 g/10 min @Load 10.0 kg, Temperature 220 °C	6.3 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	114 MPa @Load 36.5 kg, Time 30.0 sec	16500 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	58.0 MPa	8410 psi	50mm/min; ISO 527-1/-2
Elongation at Break	8.0 %	8.0 %	Nominal; ISO 527-1/-2
Elongation at Yield	3.1 %	3.1 %	50mm/min; ISO 527-1/-2
Tensile Modulus	2.70 GPa	392 ksi	ISO 527-1/-2
Flexural Strength	81.0 MPa	11700 psi	ISO 178
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	5.00 kJ/m ² @Temperature -30.0 °C	2.38 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
	12.0 kJ/m ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	14.0 J/cm ²	66.6 ft-lb/in ²	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ISO 179/1eA
Charpy Impact, Notched	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	1.20 J/cmÂ²	5.71 ft-lb/inÂ²	ISO 179/1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 - 110 Âµm/m-Â°C	38.9 - 61.1 Âµin/in-Â°F	ISO 11359-1/-2
	@Temperature 23.0 - 80.0 Â°C	@Temperature 73.4 - 176 Â°F	
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ftÂ²- Â°F	DIN 52612-1
Maximum Service Temperature, Air	90.0 Â°C	194 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	113 Â°C	235 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	109 Â°C	228 Â°F	ISO 75
Vicat Softening Point	112 Â°C	234 Â°F	VST/B/50; ISO 306
	118 Â°C	244 Â°F	VST/A/50; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Dielectric Strength	41.0 kV/mm	1040 kV/in	K20/P50; IEC 60243-1

Processing Properties	Metric	English	Comments
Melt Temperature	230 - 270 Â°C	446 - 518 Â°F	Injection Molding
Mold Temperature	30.0 - 60.0 Â°C	86.0 - 140 Â°F	Injection Molding
Drying Temperature	80.0 Â°C	176 Â°F	Pre-drying
Dry Time	2 - 4 hour	2 - 4 hour	Pre-drying

Descriptive Properties	Value	Comments
Commercial Status	Europe	
Primary Processing Technique	Injection Molding	

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