

## Styrolution Terluran® HH-112 ABS

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

### Material Notes:

Terluran HH-112 is an injection molding grade of ABS with very high heat resistance. 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-ABS.php](http://www.lookpolymers.com/polymer_Styrolution-Terluran-HH-112-ABS.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	ASTM Data; MD
Melt Flow	6.0 g/10 min	6.0 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	
	6.0 g/10 min	6.0 g/10 min	ASTM Test
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	58.0 MPa	8410 psi	50mm/min; ISO 527
	58.0 MPa	8410 psi	2 in/min; ASTM Test
Elongation at Break	8.0 %	8.0 %	50mm/min, Nominal strain; ISO 527
Elongation at Yield	3.0 %	3.0 %	2 in/min; ASTM Test
	3.1 %	3.1 %	50mm/min; ISO 527
Tensile Modulus	2.70 GPa	392 ksi	1mm/min; ISO 527
	2.80 GPa	406 ksi	ASTM Test
Flexural Strength	81.0 MPa	11700 psi	ISO Data
	88.0 MPa	12800 psi	ASTM Test
Flexural Modulus	2.70 GPa	392 ksi	ASTM Test
Izod Impact, Notched	0.550 J/cm	1.03 ft-lb/in	ASTM Test
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.00 J/cm	1.87 ft-lb/in	

Mechanical Properties	Metric @ Thickness 3.17 mm	English @ Thickness 0.125 in	ASTM Test Comments
Izod Impact, Notched (ISO)	12.0 kJ/m <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	ISO Test
Charpy Impact Unnotched	14.0 J/cm <sup>2</sup>	66.6 ft-lb/in <sup>2</sup>	ISO 179
	8.00 J/cm <sup>2</sup>	38.1 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	1.20 J/cm <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	ISO 179
	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	113 Å°C	235 Å°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	109 Å°C	228 Å°F	ISO 75
Vicat Softening Point	112 Å°C	234 Å°F	Rate "A" Loading 2 (50 degC/h 50N); ASTM Test
	112 Å°C	234 Å°F	(50 Å°C/h / 50N) - B/50; ISO 306
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 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	IEC 60243-1

Processing Properties	Metric	English	Comments
Melt Temperature	250 Å°C	482 Å°F	Injection molding
Mold Temperature	105 Å°C	221 Å°F	Ejection temperature
Injection Velocity	60.0 mm/sec	2.36 in/sec	Injection molding

Descriptive Properties	Value	Comments
Color	Natural	
Commercial Status	North America and Europe	
Form	Pellets	
Impact Modified	Yes	
NSF Std. 51	No	
NSF Std. 61	No	
Primary Processing Technique	Injection Molding	
Processing	Injection Molding	
Special characteristic	Platable	
UL.UL-C	Yes	
USP Class VI	No	

## Contact Songhan Plastic Technology Co.,Ltd.

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