

Styrolution Terluran® HH-106 ABS

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

Material Notes:

Terluran HH-106 is an injection molding ABS grade with high resistance to heat deformation and impact. 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-106-ABS.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	ASTM Data; MD
Melt Flow	7.0 g/10 min	7.0 g/10 min	ISO 1133
	@Load 10.0 kg, Temperature 220 °C	@Load 22.0 lb, Temperature 428 °F	
	7.0 g/10 min	7.0 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	51.0 MPa	7400 psi	50mm/min; ISO 527
	52.0 MPa	7540 psi	2 in/min; ASTM Test
Elongation at Break	9.0 %	9.0 %	50mm/min, Nominal strain; ISO 527
Elongation at Yield	3.0 %	3.0 %	50mm/min; ISO 527
	3.0 %	3.0 %	2 in/min; ASTM Test
Tensile Modulus	2.40 GPa	348 ksi	1mm/min; ISO 527
	2.50 GPa	363 ksi	ASTM Test
Flexural Strength	72.0 MPa	10400 psi	ISO Data
	77.0 MPa	11200 psi	ASTM Test
Flexural Modulus	2.40 GPa	348 ksi	ASTM Test
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ASTM Test
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	2.30 J/cm	4.31 ft-lb/in	

Mechanical Properties	Metric @ Thickness 3.17 mm	English @ Thickness 0.125 in	ASTM Test Comments
Izod Impact, Notched (ISO)	19.0 kJ/m ²	9.04 ft-lb/in ²	ISO Test
Charpy Impact Unnotched	19.0 J/cm ²	90.4 ft-lb/in ²	ISO 179
	10.0 J/cm ² @Temperature -30.0 °C	47.6 ft-lb/in ² @Temperature -22.0 °F	ISO 179
Charpy Impact, Notched	1.70 J/cm ²	8.09 ft-lb/in ²	ISO 179
	0.700 J/cm ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.0 Åµm/m-Å°C	52.8 Åµin/in-Å°F	ISO 11359
Deflection Temperature at 0.46 MPa (66 psi)	111 Å°C	232 Å°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	106 Å°C	223 Å°F	ISO 75
Vicat Softening Point	106 Å°C	223 Å°F	Rate "A" Loading 2 (50 degC/h 50N); ASTM Test
	106 Å°C	223 Å°F	(50 Å°C/h / 50N) - B/50; ISO 306
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
	HB @Thickness 3.00 mm	HB @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	39.0 kV/mm	991 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	Heat stabilized or stable to heat	
	Platable	
UL.UL-C	Yes	
USP Class VI	No	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China