

## Styrolution Terluran® HH-106 Q109 Colored ABS

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

Description: Injection-molding grade with high resistance to heat deformation and impact, with improved surface quality suitable for automotive applications. 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-Q109-Colored-ABS.php](http://www.lookpolymers.com/polymer_Styrolution-Terluran-HH-106-Q109-Colored-ABS.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Melt Flow	7.35 g/10 min @Load 10.0 kg, Temperature 220 °C	7.35 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	102 MPa @Load 36.5 kg, Time 30.0 sec	14800 psi @Load 80.5 lb, Time 0.00833 hour	ISO 2039-1
Tensile Strength, Yield	51.0 MPa	7400 psi	50mm/min; ISO 527-1/-2
Elongation at Break	9.0 %	9.0 %	Nominal; ISO 527-1/-2
Elongation at Yield	3.0 %	3.0 %	50mm/min; ISO 527-1/-2
Tensile Modulus	2.40 GPa	348 ksi	ISO 527-1/-2
Flexural Strength	72.0 MPa	10400 psi	ISO 178
Izod Impact, Notched	2.20 J/cm	4.12 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	7.00 kJ/m <sup>2</sup> @Temperature -30.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180/A
	19.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	9.04 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	10.0 J/cm <sup>2</sup> @Temperature -30.0 °C	47.6 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eU
	19.0 J/cm <sup>2</sup>	90.4 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ISO 179/1eA
Charpy Impact, Notched	0.700 J/cmÂ²	3.33 ft-lb/inÂ²	ISO 179/1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	1.70 J/cmÂ²	8.09 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	80.0 - 110 Âµm/m-Â°C	44.4 - 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	85.0 Â°C	185 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	111 Â°C	232 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	106 Â°C	223 Â°F	ISO 75
Vicat Softening Point	106 Â°C	223 Â°F	VST/B/50; ISO 306
	115 Â°C	239 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	39.0 kV/mm	991 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
Color	Black 10351	
Commercial Status	Europe	
Primary Processing Technique	Injection Molding	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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