Styrolution TerluranÂ® HD-15 ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

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-HD-15-ABS.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/inÂ³	ISO 1183
Melt Flow	15.75 g/10 min @Load 10.0 kg, Temperature 220 Â°C	15.75 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	38.0 MPa	5510 psi	ISO 527
Elongation at Break	10 %	10 %	Nominal; ISO 527
Tensile Modulus	2.30 GPa	334 ksi	ISO 527
Izod Impact, Notched (ISO)	16.0 kJ/mÂ²	7.61 ft-lb/inÂ²	ISO 180
Charpy Impact Unnotched	9.00 J/cmÂ² @Temperature -30.0 Â°C	42.8 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179
	17.0 J/cmÂ² @Temperature 23.0 Â°C	80.9 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179
Charpy Impact, Notched	0.600 J/cmÂ² @Temperature -30.0 Â°C	2.86 ft-lb/inÂ² @Temperature -22.0 Â°F	ISO 179
	1.40 J/cmÂ² @Temperature 23.0 Â°C	6.66 ft-lb/inÂ² @Temperature 73.4 Â°F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	95.0 Âµm/m-Â°C	52.8 Âµin/in-Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	99.0 Â°C	210 Â°F	ISO 75
Deflection Temperature at 1.8 MPa			ISO 75

Thermal Properties	Metric	English	Comments
(264 psi)	93.0 Â°C	199 Â°F	
Vicat Softening Point	100 Â°C @Temperature 50.0 Â°C	212 Â°F @Temperature 122 Â°F	ISO 306

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	2.8 @Frequency 1.00e+6 Hz	2.8 @Frequency 1.00e+6 Hz	IEC 60250
	2.9 @Frequency 100 Hz	2.9 @Frequency 100 Hz	IEC 60250
Dielectric Strength	37.0 kV/mm @Thickness 1.50 mm	940 kV/in @Thickness 0.0591 in	K20/P50; IEC 60243-1
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Commercial Status	North America	

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