

Styrolution Terluran® EGP-7 ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Extruded

Material Notes:

Terluran EGP-7 is an extrusion grade with well balanced properties.UL 94 HBInformation provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Terluran-EGP-7-ABS.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.21 % @Temperature 23.0 °C	0.21 % @Temperature 73.4 °F	50% RH; ISO 62
Water Absorption at Saturation	0.95 % @Temperature 23.0 °C	0.95 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ISO 294-4
Melt Flow	5.0 g/10 min @Load 10.0 kg, Temperature 220 °C	5.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	97.0 MPa	14100 psi	ISO 2039-1
Tensile Strength, Yield	43.0 MPa	6240 psi	ISO 527
Elongation at Yield	2.9 %	2.9 %	ISO 527
Tensile Modulus	2.40 GPa	348 ksi	ISO 527
Flexural Strength	65.0 MPa	9430 psi	ISO 178
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
Izod Impact, Notched (ISO)	14.0 kJ/m ² @Temperature -30.0 °C	6.66 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
	34.0 kJ/m ² @Temperature 23.0 °C	16.2 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A
Charpy Impact Unnotched	NB	NB	ISO 179

Mechanical Properties Charpy Impact, Notched	Metric 1.40 J/cm ²	English 6.66 ft-lb/in ²	Comments ISO 179
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	3.30 J/cm ²	15.7 ft-lb/in ²	ISO 179
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 - 110 Âµm/m-Â°C	44.4 - 61.1 Âµin/in-Â°F	ISO 11359
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft ² - Â°F	DIN 52612-1
Maximum Service Temperature, Air	80.0 Â°C	176 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	103 Â°C	217 Â°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	101 Â°C	214 Â°F	ISO 75
Vicat Softening Point	100 Â°C	212 Â°F	50Â°C/h; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	107 Â°C	225 Â°F	50Â°C/h; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	IEC 60093

Processing Properties	Metric	English	Comments
Melt Temperature	203 - 250 Â°C	397 - 482 Â°F	ISO 294

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