

Styrolution Terluran® GP-25 ABS

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

Material Notes:

Terluran GP-25 is an easy-flow, general purpose injection molding grade with high resistance to impact and heat distortion; intended for a wide range of applications, particularly in the housings sector. Excellent colorability Medium flow Good impact resistance Good heat distortion resistance High quality surface finish and gloss Information provided by Styrolution

Order this product through the following link:

http://www.lookpolymers.com/polymer_Styrolution-Terluran-GP-25-ABS.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 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	25 g/10 min @Load 10.0 kg, Temperature 220 °C	25 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	99.0 MPa	14400 psi	ISO 2039-1
Tensile Strength, Yield	44.0 MPa	6380 psi	ISO 527
Elongation at Break	12 %	12 %	ISO 527
Elongation at Yield	2.4 %	2.4 %	ISO 527
Tensile Modulus	2.30 GPa	334 ksi	ISO 527
Flexural Strength	65.0 MPa	9430 psi	ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	ISO 180/A
	22.0 kJ/m ² @Temperature 23.0 °C	10.5 ft-lb/in ² @Temperature 73.4 °F	ISO 180/A


Mechanical Properties	Metric/cm ²	English/lb/in ²	Comments
Charpy Impact Unnotched	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179
	12.5 J/cm ²	59.5 ft-lb/in ²	ISO 179
Charpy Impact, Notched	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179
	0.700 J/cm ²	3.33 ft-lb/in ²	ISO 179
	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179
	1.90 J/cm ²	9.04 ft-lb/in ²	ISO 179
	@Temperature 23.0 °C	@Temperature 73.4 °F	ISO 179

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 - 110 Åµm/m-Å°C	44.4 - 61.1 Åµin/in-Å°F	ISO 11359
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ftÅ²- Å°F	DIN 52612-1
Deflection Temperature at 0.46 MPa (66 psi)	97.0 Å°C	207 Å°F	ISO 75
Deflection Temperature at 1.8 MPa (264 psi)	93.0 Å°C	199 Å°F	ISO 75
Vicat Softening Point	96.0 Å°C	205 Å°F	50Å°C/h; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	103 Å°C	217 Å°F	50Å°C/h; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Optical Properties	Metric	English	Comments
Yellow Index	15 %	15 %	DIN 52912-1

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	220 - 260 Å°C	428 - 500 Å°F	ISO 294
Mold Temperature	30.0 - 60.0 Å°C	86.0 - 140 Å°F	ISO 294
Injection Velocity	200 mm/sec	7.87 in/sec	ISO 294

Processing Properties	Metric 	English	Comments
Drying Temperature	@Time 7200 - 14400 sec	@Time 2.00 - 4.00 hour	

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