

Ineos ABS Lustran® ABS E112LG Pellets

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

Material Notes:

Lustran® ABS E112LG is extrusion grade for low gloss surfaces. It is used for the production of molded plastic articles.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-ABS-E112LG-Pellets.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	Test Condition: 60x60x2; ISO 294-4
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	Test Condition: 60x60x2; ISO 294-4
Melt Flow	6.0 g/10 min @Load 10.0 kg, Temperature 220 °C	6.0 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	65.0 MPa	9430 psi	ISO 2039-1
Tensile Strength, Yield	26.0 MPa	3770 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	>= 15 %	>= 15 %	50 mm/min; acc. ISO 527-1,-2
Elongation at Yield	3.2 %	3.2 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	1.50 GPa	218 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	43.0 MPa	6240 psi	2 mm/min; ISO 178
Flexural Modulus	1.50 GPa	218 ksi	2 mm/min; 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 180-1A
	8.00 kJ/m ² @Temperature 23.0 °C	3.81 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A
Charpy Impact Unnotched	7.00 J/cm ² @Temperature -30.0 °C	33.3 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1eU
	12.0 J/cm ² @Temperature 23.0	57.1 ft-lb/in ²	ISO 179-1eU

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179-1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179-1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1,-2; Parallel to Flow
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	95.0 °C	203 °F	ISO 75-1,-2
Vicat Softening Point	98.0 °C	208 °F	50°C/hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.9	2.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.0	3.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	36.0 kV/mm	914 kV/in	IEC 60243-1
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dissipation Factor	0.0050	0.0050	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0090	0.0090	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Processing Properties	Metric	English	Comments
Melt Temperature	240 °C	464 °F	Injection Molding; ISO 294
Mold Temperature	70.0 °C	158 °F	Injection Molding; ISO 294

Injection Velocity Processing Properties	240 mm/sec Metric	9.45 in/sec English	Injection Molding; ISO 294 Comments
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