

Ineos ABS Lustran® ABS E211 LNS013 Pellets (a-methylstyrene-SAN-modified), Extrusion Grade

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

Material Notes:

Lustran® ABS E211 LNS013 is extrusion grade with high heat resistance. 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-E211-LNS013-Pellets-a-methylstyrene-SAN-modified-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
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	105 MPa	15200 psi	ISO 2039-1
Tensile Strength, Yield	45.0 MPa	6530 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	>= 15 %	>= 15 %	50 mm/min; acc. ISO 527-1,-2
Elongation at Yield	2.7 %	2.7 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.50 GPa	363 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	73.0 MPa	10600 psi	2 mm/min; ISO 178
Flexural Modulus	2.40 GPa	348 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	9.00 kJ/m ² @Temperature -30.0 °C	4.28 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1A
	20.0 kJ/m ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A
Charpy Impact Unnotched	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1eU
	15.0 J/cm ²	71.4 ft-lb/in ²	ISO 179-1eU

Mechanical Properties	Metric @Temperature 23.0 Â°C	English @Temperature 73.4 Â°F	Comments
Charpy Impact, Notched	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	ISO 179-1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	ISO 179-1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 Âµm/m-Â°C	44.4 Âµin/in-Â°F	ISO 11359-1,-2; Parallel to Flow
	@Temperature 23.0 - 55.0 Â°C	@Temperature 73.4 - 131 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	107 Â°C	225 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	101 Â°C	214 Â°F	ISO 75-1,-2
Vicat Softening Point	108 Â°C	226 Â°F	50Â°C/hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Flame Spread	55 mm/min	2.2 in/min	US-FMVSS; ISO 3795
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Glow Wire Test	700 Â°C	1290 Â°F	GWFI; IEC 60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
Surface Resistance	1.00e+16 ohm	1.00e+16 ohm	IEC 60093
Dielectric Constant	2.9	2.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.1	3.1	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 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	

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	Solution A, Rating; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	240 Â°C	464 Â°F	Injection Molding; ISO 294
Mold Temperature	70.0 Â°C	158 Â°F	Injection Molding; ISO 294
Injection Velocity	240 mm/sec	9.45 in/sec	Injection Molding; ISO 294

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