

## Ineos ABS Lustran® Ultra 4000 PG ABS Pellets (a-methylstyrene-SAN-modified), Electroplating Grade

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Plating Grade

### Material Notes:

Lustran® Ultra 4000 PG is electroplating 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-Ultra-4000-PG-ABS-Pellets-a-methylstyrene-SAN-modified-Electroplating-Grade.php](http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-Ultra-4000-PG-ABS-Pellets-a-methylstyrene-SAN-modified-Electroplating-Grade.php)

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	Test Condition: 150x105x3; acc. ISO 2577
Linear Mold Shrinkage, Transverse	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	Test Condition: 150x105x3; acc. ISO 2577
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	100 MPa	14500 psi	ISO 2039-1
Tensile Strength, Yield	46.0 MPa	6670 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	>= 15 %	>= 15 %	50 mm/min; acc. ISO 527-1,-2
Elongation at Yield	3.1 %	3.1 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.40 GPa	348 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	73.0 MPa	10600 psi	2 mm/min; ISO 178
Flexural Modulus	2.35 GPa	341 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup> @Temperature -30.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 180-1A
	23.0 kJ/m <sup>2</sup> @Temperature 23.0 °C	10.9 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180-1A
Charpy Impact, Notched	1.00 J/cm <sup>2</sup> @Temperature -30.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179-1eA

Mechanical Properties	Metric cm <sup>2</sup>	English lb/in <sup>2</sup>	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	ISO 179-1eA

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 Âµm/m-Â°C  @Temperature 23.0 - 55.0 Â°C	50.0 Âµin/in-Â°F  @Temperature 73.4 - 131 Â°F	ISO 11359-1,-2; Parallel to Flow
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C  @Temperature 23.0 - 55.0 Â°C	50.0 Âµin/in-Â°F  @Temperature 73.4 - 131 Â°F	ISO 11359-1,-2
Deflection Temperature at 0.46 MPa (66 psi)	103 Â°C	217 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	98.0 Â°C	208 Â°F	ISO 75-1,-2
Vicat Softening Point	107 Â°C  @Load 5.10 kg	225 Â°F  @Load 11.2 lb	50Â°C/hour; ISO 306
Flammability, UL94	HB  @Thickness 1.60 mm	HB  @Thickness 0.0630 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  @Frequency 1.00e+6 Hz	2.9  @Frequency 1.00e+6 Hz	IEC 60250
	3.0  @Frequency 100 Hz	3.0  @Frequency 100 Hz	IEC 60250
Dielectric Strength	38.0 kV/mm  @Thickness 1.00 mm	965 kV/in  @Thickness 0.0394 in	IEC 60243-1
	0.0063  @Frequency 100 Hz	0.0063  @Frequency 100 Hz	IEC 60250
Dissipation Factor	0.0087  @Frequency 1.00e+6 Hz	0.0087  @Frequency 1.00e+6 Hz	IEC 60250

Comparative Tracking Index Electrical Properties	600 V Metric	600 V English	Solution A, Rating; IEC 60112 Comments
<b>Processing Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Melt Temperature	240 Å°C	464 Å°F	Injection Molding; ISO 294
Mold Temperature	70.0 Å°C	158 Å°F	Injection Molding; ISO 294
Injection Velocity	240 mm/sec	9.45 in/sec	Injection Molding; ISO 294

## Contact Songhan Plastic Technology Co.,Ltd.

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