

## Ineos ABS Lustran® ABS M406

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

### Material Notes:

Lustran® ABS M406 has very high impact strength and increased chemical and dynamic 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-M406.php](http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-ABS-M406.php)

Physical Properties	Metric	English	Comments
Linear Mold Shrinkage, Flow	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	Test Condition: 150x105x3; acc. ISO 2577
Linear Mold Shrinkage, Transverse	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	Test Condition: 150x105x3; acc. ISO 2577
Melt Flow	10 g/10 min @Load 10.0 kg, Temperature 220 Å°C	10 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	74.0 MPa	10700 psi	ISO 2039-1
Tensile Strength at Break	29.0 MPa	4210 psi	50 mm/min; ISO 527-1,-2
Tensile Strength, Yield	39.0 MPa	5660 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	>= 15 %	>= 15 %	50 mm/min; acc. ISO 527-1,-2
Elongation at Yield	2.6 %	2.6 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	1.80 GPa	261 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	55.0 MPa	7980 psi	2 mm/min; ISO 178
Flexural Modulus	1.80 GPa	261 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	18.0 kJ/mÅ² @Temperature -30.0 Å°C	8.57 ft-lb/inÅ² @Temperature -22.0 Å°F	ISO 180-1A
	29.0 kJ/mÅ² @Temperature 23.0 Å°C	13.8 ft-lb/inÅ² @Temperature 73.4 Å°F	ISO 180-1A

Thermal Properties	Metric	English	Comments
CTE, linear	110 Åµm/m-Å°C	61.1 Åµin/in-Å°F	ISO 11359-1,-2; Parallel to Flow

Thermal Properties	Metric @Temperature 23.0 - 55.0 Å°C	English @Temperature 73.4 - 131 Å°F	Comments
CTE, linear, Transverse to Flow	110 Åµm/m-Å°C	61.1 Åµin/in-Å°F	ISO 11359-1,-2
Deflection Temperature at 0.46 MPa (66 psi)	95.0 Å°C	203 Å°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	91.0 Å°C	196 Å°F	ISO 75-1,-2
Vicat Softening Point	92.0 Å°C @Load 5.10 kg	198 Å°F @Load 11.2 lb	50Å°C/hour; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	
Glow Wire Test	650 Å°C	1200 Å°F	GWFI; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	IEC 60093
Dielectric Constant	2.8 @Frequency 1.00e+6 Hz	2.8 @Frequency 1.00e+6 Hz	IEC 60250
	2.9 @Frequency 100 Hz	2.9 @Frequency 100 Hz	IEC 60250
Dielectric Strength	33.0 kV/mm @Thickness 1.00 mm	838 kV/in @Thickness 0.0394 in	IEC 60243-1
	0.0055 @Frequency 100 Hz	0.0055 @Frequency 100 Hz	IEC 60250
Dissipation Factor	0.0090 @Frequency 1.00e+6 Hz	0.0090 @Frequency 1.00e+6 Hz	IEC 60250
	600 V	600 V	Solution A, Rating; IEC 60112

Processing Properties	Metric	English	Comments
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

Processing Properties	Metric	English	Comments
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## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China