

Ineos ABS Lustran® Ultra 4105 ABS Pellets (Polycarbonate-modified), Medium High Heat Grade

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Lustran® Ultra 4105 is medium high heat grade with superior impact resistance. It is PC-modified and has low emission. 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-4105-ABS-Pellets-Polycarbonate-modified-Medium-High-Heat-Grade.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	Test Condition: 150x105x3; acc. ISO 2577
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	Test Condition: 150x105x3; acc. ISO 2577
Melt Flow	12 g/10 min @Load 5.00 kg, Temperature 260 Â°C	12 g/10 min @Load 11.0 lb, Temperature 500 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	85.0 MPa	12300 psi	ISO 2039-1
Tensile Strength at Break	37.0 MPa	5370 psi	50 mm/min; ISO 527-1,-2
Tensile Strength, Yield	45.0 MPa	6530 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	15 %	15 %	50 mm/min, Nominal; ISO 527-1,-2
	30 %	30 %	50 mm/min; acc. ISO 527-1,-2
Elongation at Yield	3.7 %	3.7 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.00 GPa	290 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	70.0 MPa	10200 psi	2 mm/min; ISO 178
Flexural Modulus	2.00 GPa	290 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	34.0 kJ/m ² @Temperature -30.0 Â°C	16.2 ft-lb/in ² @Temperature -22.0 Â°F	ISO 180-1A
	42.0 kJ/m ² @Temperature 23.0	20.0 ft-lb/in ²	ISO 180-1A

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	3.00 J/cm ²	14.3 ft-lb/in ²	ISO 179-1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	4.00 J/cm ²	19.0 ft-lb/in ²	ISO 179-1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ISO 11359-1,-2; Parallel to Flow
	@Temperature 23.0 - 55.0 Â°C	@Temperature 73.4 - 131 Â°F	
CTE, linear, Transverse to Flow	90.0 Âµm/m-Â°C	50.0 Âµin/in-Â°F	ISO 11359-1,-2
	@Temperature 23.0 - 55.0 Â°C	@Temperature 73.4 - 131 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	108 Â°C	226 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	103 Â°C	217 Â°F	ISO 75-1,-2
Vicat Softening Point	106 Â°C	223 Â°F	50Â°C/hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Flame Spread	34 mm/min	1.3 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	6.00e+16 ohm-cm	6.00e+16 ohm-cm	IEC 60093
Surface Resistance	2.00e+17 ohm	2.00e+17 ohm	IEC 60093
Dielectric Constant	3.0	3.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.0	3.0	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 100 Hz	@Frequency 100 Hz	IEC 60250
	0.0086	0.0086	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250

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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