

Ineos ABS Lustran[®] M205FC ABS Pellets, Injection Molding Grade

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

Material Notes:

Injection Molding grade for medical applications (e.g. inhalers, roller clamps, spikes, etc.)/ Biocompatible with up to 30 days human contact duration according to USP Class VI and ISO 10993-1. Food contact acc. to BfR and FDA, DMF registered. Good flowing, standard impact strength

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-M205FC-ABS-Pellets-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.055 g/cc	0.03811 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.0050 cm/cm	0.0050 in/in	Test Condition: 150x105x3; 500 bar; acc. ISO 2577
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	Test Condition: 150x105x3; 500 bar; acc. ISO 2577
Melt Flow	20 g/10 min @Load 10.0 kg, Temperature 220 Å°C	20 g/10 min @Load 22.0 lb, Temperature 428 Å°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	106 MPa	15400 psi	ISO 2039-1
Tensile Strength at Break	36.5 MPa	5290 psi	50 mm/min; ISO 527-1,-2
Tensile Strength, Yield	50.5 MPa	7320 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	>= 15 %	>= 15 %	50 mm/min; acc. ISO 527-1,-2
	20 %	20 %	50 mm/min, Nominal; ISO 527-1,-2
Elongation at Yield	2.6 %	2.6 %	50 mm/min; ISO 527-1,-2
Tensile Modulus	2.55 GPa	370 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	75.0 MPa	10900 psi	2 mm/min; ISO 178
Flexural Modulus	2.60 GPa	377 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	7.00 kJ/m ² @Temperature -30.0 Å°C	3.33 ft-lb/in ² @Temperature -22.0 Å°F	ISO 180-1A
	15.0 kJ/m ² @Temperature 23.0 Å°C	7.14 ft-lb/in ² @Temperature 73.4 Å°F	ISO 180-1A

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	ISO 179-1eU
	12.4 J/cmÂ²	59.0 ft-lb/inÂ²	ISO 179-1eU
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	0.700 J/cmÂ²	3.33 ft-lb/inÂ²	ISO 179-1eA
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
	1.60 J/cmÂ²	7.61 ft-lb/inÂ²	ISO 179-1eA
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	78.0 Âµm/m-Â°C	43.3 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	81.0 Âµm/m-Â°C	45.0 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)	98.0 Â°C	208 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	94.0 Â°C	201 Â°F	ISO 75-1,-2
Vicat Softening Point	98.0 Â°C	208 Â°F	50Â°C/hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	101 Â°C	214 Â°F	120Â°C/hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Glow Wire Test	650 Â°C	1200 Â°F	GWFI; IEC 60695-2-12
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+16 ohm-cm	2.00e+16 ohm-cm	IEC 60093
Surface Resistance	2.00e+17 ohm	2.00e+17 ohm	IEC 60093

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60250
	3.04	3.04	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0053	0.0053	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0096	0.0096	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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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