

Ineos ABS Lustran® Guardian,ç 682 ABS, Injection Molding Grade

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

Material Notes:

Lustran® ABS 682 is a high performance, HCFC-141b resistant grade of ABS for injection molded refrigerator and freezer components.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-Guardian-682-ABS-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM-D792, ISO 1183
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM-D955
Melt Flow	0.70 g/10 min	0.70 g/10 min	ASTM-D1238, ISO 1133
	@Load 3.80 kg, Temperature 230 Å°C	@Load 8.38 lb, Temperature 446 Å°F	
	5.2 g/10 min	5.2 g/10 min	ASTM-D1238, ISO 1133
	@Load 10.0 kg, Temperature 220 Å°C	@Load 22.0 lb, Temperature 428 Å°F	
	8.0 g/10 min	8.0 g/10 min	ASTM-D1238, ISO 1133
	@Load 10.0 kg, Temperature 230 Å°C	@Load 22.0 lb, Temperature 446 Å°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	32.0 MPa	4640 psi	ASTM-D638
	34.0 MPa	4930 psi	50-mm/min; ISO 527
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	52.0 MPa	7540 psi	50-mm/min; ISO 527
	@Temperature -18.0 Å°C	@Temperature -0.400 Å°F	
Tensile Strength, Yield	43.0 MPa	6240 psi	ASTM-D638
	48.0 MPa	6960 psi	50-mm/min; ISO 527
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
	64.0 MPa	9280 psi	50-mm/min; ISO 527
	@Temperature -18.0 Å°C	@Temperature -0.400 Å°F	
Elongation at Break	34 %	34 %	ASTM-D638

Mechanical Properties	Metric	English	Comments
	@Temperature -18.0 Â°C	@Temperature -0.400 Â°F	50-mm/min; ISO 527
	20 %	20 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	50-mm/min; ISO 527
Tensile Modulus	2.47 GPa	358 ksi	ASTM-D638
	2.42 GPa	351 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	1-mm/min; ISO 527
	2.81 GPa	408 ksi	
	@Temperature -18.0 Â°C	@Temperature -0.400 Â°F	1-mm/min; ISO 527
Flexural Yield Strength	72.0 MPa	10400 psi	ASTM-D790
	72.0 MPa	10400 psi	ISO 178
Flexural Modulus	2.48 GPa	360 ksi	ISO 178
	2.53 GPa	367 ksi	ASTM-D790
Izod Impact, Notched (ISO)	12.0 kJ/mÂ²	5.71 ft-lb/inÂ²	10.0-mm x 4.0-mm, 0.25-mm notch; ISO 180
	@Temperature -18.0 Â°C	@Temperature -0.400 Â°F	
	13.8 kJ/mÂ²	6.57 ft-lb/inÂ²	12.7-mm x 3.2-mm, 0.25-mm notch; ASTM-D256
	@Temperature -18.0 Â°C	@Temperature -0.400 Â°F	
	29.0 kJ/mÂ²	13.8 ft-lb/inÂ²	10.0-mm x 4.0-mm, 0.25-mm notch; ISO 180
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	48.0 kJ/mÂ²	22.8 ft-lb/inÂ²	12.7-mm x 3.2-mm, 0.25-mm notch; ASTM-D256
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Impact Test	20.0 J	14.8 ft-lb	Multiaxial Impact (3.4 m/s, 40-mm ring, M831 Striker); Energy to Peak Load; ASTM-D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	26.0 J	19.2 ft-lb	Multiaxial Impact (3.4 m/s, 40-mm ring, M831 Striker); Energy to Peak Load; ASTM-D3763
	@Temperature -18.0 Â°C	@Temperature -0.400 Â°F	
	30.0 J	22.1 ft-lb	Multiaxial Impact (3.4 m/s, 40-mm

Mechanical Properties	Metric	English	Comments
	@Temperature -18.0 Â°C	@Temperature -0.400 Â°F	ring, M831 Striker); Total Energy; ASTM-D3763
	33.0 J	24.3 ft-lb	Multiaxial Impact (3.4 m/s, 40-mm ring, M831 Striker); Total Energy; ASTM-D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear	102 Âµm/m-Â°C	56.7 Âµin/in-Â°F	ASTM-D696
Deflection Temperature at 1.8 MPa (264 psi)	94.5 Â°C	202 Â°F	Annealed (2 hours at 80Â°C); ISO 75
	95.1 Â°C	203 Â°F	Annealed (2 hours at 80Â°C); ASTM- D648
Vicat Softening Point	94.1 Â°C	201 Â°F	50Â°C/hour; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	97.0 Â°C	207 Â°F	120Â°C/hour; ISO 306
	@Load 5.00 kg	@Load 11.0 lb	
	108.9 Â°C	228.0 Â°F	120Â°C/hour; ASTM-D1525
	@Load 1.00 kg	@Load 2.20 lb	
Flammability, UL94	HB	HB	White
	@Thickness 1.10 mm	@Thickness 0.0433 in	
	HB	HB	All Colors
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Optical Properties	Metric	English	Comments
Gloss	87 %	87 %	Angle 20Â°; Gardner
	96 %	96 %	Angle 60Â°; Gardner

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