

Ineos ABS Lustran® ABS 680 LNS503 High Performance Injection Molding Grade

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

Material Notes:

Lustran® ABS 680 LNS503 is an easy flow version. It is a high performance injection molding grade used for refrigerator and freezer door end caps.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-ABS-680-LNS503-High-Performance-Injection-Molding-Grade.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO 1183
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ISO 294-4
Melt Flow	10 g/10 min @Load 10.0 kg, Temperature 220 °C	10 g/10 min @Load 22.0 lb, Temperature 428 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ISO 2039-2
Tensile Strength at Break	37.0 MPa	5370 psi	50 mm/min; ISO 527-1,-2
Tensile Strength, Yield	49.0 MPa	7110 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	25 %	25 %	50 mm/min; acc. ISO 527-1,-2
Tensile Modulus	2.60 GPa	377 ksi	1 mm/min; ISO 527-1,-2
Flexural Strength	72.0 MPa	10400 psi	2 mm/min; ISO 178
Flexural Modulus	2.50 GPa	363 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m ² @Temperature -30.0 °C	4.76 ft-lb/in ² @Temperature -22.0 °F	ISO 180-1A
	16.0 kJ/m ² @Temperature -20.0 °C	7.61 ft-lb/in ² @Temperature -4.00 °F	ISO 180-1A
	23.0 kJ/m ² @Temperature 23.0 °C	10.9 ft-lb/in ² @Temperature 73.4 °F	ISO 180-1A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	96.0 Â°C	205 Â°F	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	92.0 Â°C	198 Â°F	ISO 75-1,-2
Vicat Softening Point	102 Â°C @Load 5.10 kg	216 Â°F @Load 11.2 lb	120Â°C/hour; ISO 306
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Optical Properties	Metric	English	Comments
Gloss	85 %	85 %	Angle 60Â°; ISO 2813

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