

Ineos ABS Lustran® ABS 349

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

Material Notes:

Lustran® ABS 349 is a high-gloss, medium-impact injection molding resin that has been specially formulated for excellent surface lubricity using internal additives.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-ABS-349.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM-D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM-D955
Melt Flow	6.0 g/10 min	6.0 g/10 min	230/3.8; ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	110	110	ASTM-D785
Tensile Strength, Yield	42.1 MPa	6100 psi	ASTM-D638
Tensile Modulus	2.62 GPa	380 ksi	ASTM-D638
Flexural Yield Strength	72.4 MPa	10500 psi	ASTM-D790
Flexural Modulus	2.69 GPa	390 ksi	ASTM-D790
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	1/8" x 1/2" bar; ASTM-D256

Thermal Properties	Metric	English	Comments
CTE, linear	81.0 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	45.0 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM-D696
Deflection Temperature at 1.8 MPa (264 psi)	87.8 $\text{Å}^\circ\text{C}$	190 $\text{Å}^\circ\text{F}$	Unannealed, 1/2" x 1/2" bar; ASTM-D648
Vicat Softening Point	104 $\text{Å}^\circ\text{C}$ @Load 1.00 kg	220 $\text{Å}^\circ\text{F}$ @Load 2.20 lb	ASTM-D1525

Processing Properties	Metric	English	Comments
Melt Temperature	246 - 274 $\text{Å}^\circ\text{C}$	475 - 525 $\text{Å}^\circ\text{F}$	Injection Molding
Mold Temperature	26.7 - 65.6 $\text{Å}^\circ\text{C}$	80.0 - 150 $\text{Å}^\circ\text{F}$	Injection Molding
Drying Temperature	71.1 - 76.7 $\text{Å}^\circ\text{C}$	160 - 170 $\text{Å}^\circ\text{F}$	4 hours
	82.2 - 87.8 $\text{Å}^\circ\text{C}$	180 - 190 $\text{Å}^\circ\text{F}$	2 hours

Processing Properties	Metric	English	Comments
Back Pressure	0.000 - 0.172 MPa	0.000 - 25.0 psi	Injection Molding
Cushion	<= 0.317 cm	<= 0.125 in	Injection Molding

Descriptive Properties	Value	Comments
Injection Speed	High	Injection Molding
Screw Compression Ratio	2.5:1	Injection Molding
Screw Length-to-Diameter Ratio	>= 20:1	Injection Molding
Screw Speed	Moderate, Injection Molding	
Shot Weight-to-Machine Capacity Ratio	0.5-0.75	Injection Molding

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