

Ineos ABS Lustran® Guardian,ç 732 ABS, Extrusion Grade

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

Material Notes:

Lustran® Guardian,ç ABS 732 is an extrusion grade resin designed for use in thermoformed refrigerator and freezer liner applications. It is suitable for use with 245fa PU foams.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-Guardian-732-ABS-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	white; ASTM-D792

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	82	82	ASTM-D785
Tensile Strength at Break	28.3 MPa	4100 psi	ASTM-D638
Tensile Strength, Yield	22.8 MPa	3300 psi	ASTM-D638
Elongation at Break	100 %	100 %	ASTM-D638
Elongation at Yield	>= 1.0 %	>= 1.0 %	50:50 CO/OA, Critical; Stolki Method
Tensile Modulus	2.30 GPa	333 ksi	ASTM-D638
Izod Impact, Notched	0.747 J/cm	1.40 ft-lb/in	1/2" x 1/8"; ASTM-D256
	@Temperature -17.8 Å°C	@Temperature 0.000 Å°F	
Impact Test	1.98 J/cm	3.70 ft-lb/in	1/2" x 1/8"; ASTM-D256
	@Temperature 22.8 Å°C	@Temperature 73.0 Å°F	
Impact Test	16.3 J	12.0 ft-lb	Multiaxial Impact, Total Energy; CEAST
	@Temperature -17.8 Å°C	@Temperature 0.000 Å°F	
Impact Test	33.9 J	25.0 ft-lb	Multiaxial Impact, Total Energy; CEAST
	@Temperature 22.8 Å°C	@Temperature 73.0 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear	72.0 Åµm/m-Å°C	40.0 Åµin/in-Å°F	ASTM-D696
	@Temperature -30.0 - 30.0 Å°C	@Temperature -22.0 - 86.0 Å°F	

Thermal Properties	60.0 Â°C Metric	140 Â°F English	Comments
Maximum Service Temperature, Air	@Thickness 1.52 mm	@Thickness 0.0600 in	
Deflection Temperature at 1.8 MPa (264 psi)	87.8 Â°C	190 Â°F	Annealed (2 hours @ 176Â°F); ASTM-D648
Flammability, UL94	HB @Thickness 1.016 mm	HB @Thickness 0.04000 in	

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