

Ineos ABS Lustran® SAN 51

Category : Polymer , Thermoplastic , SAN Polymer , Styrene Acrylonitrile (SAN), Transparent

Material Notes:

Key Features:UnfilledSuitable processing methods:Injection molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-SAN-51.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa	8990 psi	
Elongation at Break	3.0 %	3.0 %	Nominal
Elongation at Yield	3.0 %	3.0 %	
Tensile Modulus	3.24 GPa	470 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	37.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	102 $\text{Å}^\circ\text{C}$	216 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	93.0 $\text{Å}^\circ\text{C}$	199 $\text{Å}^\circ\text{F}$	
Flammability, UL94	HB	HB	UL Recognized
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	UL Recognized
	@Thickness 3.00 mm	@Thickness 0.118 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	80 %	80 %	Manufacturer states transparent but does not quantify

Processing Properties	Metric	English	Comments
Melt Temperature	240 $\text{Å}^\circ\text{C}$	464 $\text{Å}^\circ\text{F}$	Injection Molding
Mold Temperature	60.0 $\text{Å}^\circ\text{C}$	140 $\text{Å}^\circ\text{F}$	Injection Molding

Processing Properties	Metric	English	Comments
Injection Velocity	200 mm/sec	7.87 in/sec	
Injection Pressure	55.0 MPa	7980 psi	

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