

Ineos ABS Lustran® 743 General Purpose, High-Impact (discontinued **)

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

Material Notes:

Information provided by Bayer Corporation, Plastics Division LANXESS was spun-off from Bayer in early 2005. Business renamed Ineos ABS after INEOS acquires a majority shareholding under a JV with Lanxess in 2007. Subsequently Ineos acquired 100% of Ineos ABS. This product is no longer listed as a standard NAFTA product.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ineos-ABS-Lustran-743-General-Purpose-High-Impact-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D955
Melt Flow	2.0 g/10 min @Load 3.80 kg, Temperature 230 °C	2.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	34.0 MPa	4930 psi	ASTM D638
Tensile Modulus	1.80 GPa	261 ksi	ASTM D638
Flexural Yield Strength	50.3 MPa	7300 psi	ASTM D790
Flexural Modulus	1.90 GPa	276 ksi	ASTM D790
Izod Impact, Notched	4.30 J/cm @Thickness 3.17 mm	8.06 ft-lb/in @Thickness 0.125 in	ASTM D256
	0.910 J/cm @Thickness 3.17 mm, Temperature -40.0 °C	1.70 ft-lb/in @Thickness 0.125 in, Temperature -40.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	95.0 µm/m-°C @Temperature 20.0 °C	52.8 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	88.0 °C @Thickness 12.7 mm	190 °F @Thickness 0.500 in	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa	82.0 °C	180 °F	

Thermal Properties	Metric @ Thickness 12.7 mm	English @ Thickness 0.500 in	Unannealed; ASTM D648 Comments
Vicat Softening Point	104 °C	219 °F	Rate B; ASTM D1525
UL RTI, Electrical	60.0 °C @Thickness 1.60 mm	140 °F @Thickness 0.0630 in	UL746B
UL RTI, Mechanical with Impact	60.0 °C @Thickness 1.60 mm	140 °F @Thickness 0.0630 in	UL746B
UL RTI, Mechanical without Impact	60.0 °C @Thickness 1.60 mm	140 °F @Thickness 0.0630 in	UL746B
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	
	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

Optical Properties	Metric	English	Comments
Transmission, Visible	0.00 %	0.00 %	Opaque only

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