

Ineos ABS Cadon® 127 SMA General Purpose, High Heat (discontinued **)

Category : Polymer , Thermoplastic , SMA Polymer , Styrene-Maleic Anhydride (SMA), Heat Resistant

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-Cadon-127-SMA-General-Purpose-High-Heat-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 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	104	104	ASTM D785
Tensile Strength, Yield	34.0 MPa	4930 psi	ASTM D638
Tensile Modulus	2.10 GPa	305 ksi	ASTM D638
Flexural Yield Strength	66.0 MPa	9570 psi	ASTM D790
Flexural Modulus	2.34 GPa	339 ksi	ASTM D790
Izod Impact, Notched	1.00 J/cm @Temperature -40.0 °C	1.87 ft-lb/in @Temperature -40.0 °F	ASTM D256
	2.10 J/cm @Thickness 3.17 mm	3.93 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 µm/m-°C @Temperature 20.0 °C	38.9 µin/in-°F @Temperature 68.0 °F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	120 °C @Thickness 13.0 mm	248 °F @Thickness 0.512 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	112 °C	234 °F	ASTM D648

Thermal Properties	@Thickness 13.0 mm Metric	@Thickness 0.512 in English	Comments
Vicat Softening Point	131 °C	268 °F	Rate B; ASTM D1525
UL RTI, Electrical	100 °C @Thickness 1.60 mm	212 °F @Thickness 0.0630 in	UL746B
UL RTI, Mechanical with Impact	95.0 °C @Thickness 1.60 mm	203 °F @Thickness 0.0630 in	UL746B
UL RTI, Mechanical without Impact	95.0 °C @Thickness 1.60 mm	203 °F @Thickness 0.0630 in	UL746B
Flammability, UL94	HB @Thickness 1.57 mm	HB @Thickness 0.0618 in	
	HB @Thickness 1.57 mm	HB @Thickness 0.0618 in	

Processing Properties	Metric	English	Comments
Melt Temperature	250 - 280 °C	482 - 536 °F	

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