

Ineos ABS Centrex® 401 AES Extrusion (discontinued **)

Category : Polymer , Thermoplastic , AES Polymer , AES, Extruded

Material Notes:

Properties tested in transverse direction (worst case) on 125-mil (3.2 mm) extruded sheets specimens with

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http://www.lookpolymers.com/polymer_ineos-ABS-Centrex-401-AES-Extrusion-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ASTM D792
Melt Flow	5.6 g/10 min	5.6 g/10 min	ASTM D1238
	@Load 10.0 kg, Temperature 230 °C	@Load 22.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	91	91	ASTM D785
Tensile Strength, Ultimate	24.0 MPa	3480 psi	ASTM D638
Tensile Strength, Yield	29.0 MPa	4210 psi	ASTM D638
Tensile Modulus	1.70 GPa	247 ksi	ASTM D638
Flexural Yield Strength	42.1 MPa	6110 psi	ASTM D790
Flexural Modulus	1.50 GPa	218 ksi	ASTM D790
Izod Impact, Notched	0.910 J/cm	1.70 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	5.90 J/cm	11.1 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
Impact Test	35.0 J	25.8 ft-lb	Instrumented Impact, Total Energy; 3.2 mm thick, 7.6 mph, 3 in. clamp, 0.5 in. dart; ASTM D3763
	@Thickness 3.20 mm	@Thickness 0.126 in	

Thermal Properties	Metric	English	Comments
CTE, linear	79.0 µm/m-°C	43.9 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 1.8 MPa (264 psi)	79.0 °C	174 °F	Unannealed; ASTM D648
	@Thickness 3.17 mm	@Thickness 0.125 in	
	50.0 °C	122 °F	

UL RTI Electrical Thermal Properties	Metric @ Thickness 1.60 mm	English @ Thickness 0.0630 in	UL 746B Comments
UL RTI, Mechanical with Impact	50.0 °C @ Thickness 1.60 mm	122 °F @ Thickness 0.0630 in	UL 746B
UL RTI, Mechanical without Impact	50.0 °C @ Thickness 1.60 mm	122 °F @ Thickness 0.0630 in	UL 746B
Flammability, UL94	HB @ Thickness 1.43 mm	HB @ Thickness 0.0563 in	
	HB @ Thickness 1.43 mm	HB @ Thickness 0.0563 in	

Optical Properties	Metric	English	Comments
Gloss	45 %	45 %	60°; Formed; ASTM D523
	75 %	75 %	60°; Sheet; ASTM D523
Transmission, Visible	0.00 %	0.00 %	Opaque only

Electrical Properties	Metric	English	Comments
Arc Resistance	60 - 120 sec @ Thickness 3.35 mm	60 - 120 sec @ Thickness 0.132 in	UL Rating PLC 6 (60-120 sec)
Comparative Tracking Index	>= 600 V @ Thickness 3.35 mm	>= 600 V @ Thickness 0.132 in	UL Rating PLC 0 (>600 V)
Hot Wire Ignition, HWI	15 - 30 sec @ Thickness 3.35 mm	15 - 30 sec @ Thickness 0.132 in	UL Rating PLC 3 (15-30 sec)
High Amp Arc Ignition, HAI	>= 120 arcs @ Thickness 1.43 mm	>= 120 arcs @ Thickness 0.0563 in	UL Rating PLC 0 (>120 arcs)
High Voltage Arc-Tracking Rate, HVTR	10.0 - 25.4 mm/min @ Thickness 1.43 mm	0.394 - 1.00 in/min @ Thickness 0.0563 in	UL Rating PLC 1 (10-25.4 mm/min.)

Processing Properties	Metric	English	Comments
Melt Temperature	204 - 243 °C	399 - 469 °F	

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