

Technical Data Sheet



Centrex 833A

Acrylonitrile Styrene Acrylate + AES

LyondellBasell Industries

Engineering Plastics

General			
Features	- Good Melt Strength - Good Weather Resistance	- High Gloss - High Impact Resistance	UV Resistant
Uses	- Marine Applications - Outdoor Applications	- Sheet - Spas	Water Sports Equipment
Agency Ratings	EC 1907/2006 (REACH)	EU 2002/96/EC (WEEE)	UL 94 HB
RoHS Compliance	RoHS Compliant		
UL File Number	E51193		
Forms	Pellets		
Processing Method	- Coextrusion - Extrusion	- Profile Extrusion - Thermoforming	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.05	1.05 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
220°C/10.0 Kg	10 g/10 min	10 g/10 min	
230°C/3.8 Kg	1.2 g/10 min	1.2 g/10 min	
Outdoor Suitability (All Colors)	f2	f2	UL 746C

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus ¹	295000 psi	2030 MPa	ASTM D638
Tensile Strength ¹ (Yield)	5100 psi	35.2 MPa	ASTM D638
Tensile Elongation ¹ (Yield)	2.4 %	2.4 %	ASTM D638
Flexural Modulus - Tangent ²	250000 psi	1720 MPa	ASTM D790
Flexural Strength ²	5200 psi	35.9 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256
-22°F (-30°C), 0.125 In (3.18 Mm)	2.4 ft·lb/in	130 J/m	
0°F (-18°C), 0.125 In (3.18 Mm)	2.9 ft·lb/in	150 J/m	
73°F (23°C), 0.125 In (3.18 Mm)	9.2 ft·lb/in	490 J/m	

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 Psi (1.8 Mpa), Unannealed, 0.125 In (3.18 Mm)	159 °F	70.5 °C	
CLTE			ASTM D696
Flow : -40 To 104°F (-40 To 40°C)	5.1E-5 in/in/°F	9.2E-5 cm/cm/°C	
Transverse : -40 To 104°F (-40 To 40°C)	9.6E-5 in/in/°F	1.7E-4 cm/cm/°C	
RTI Elec			UL 746B
0.06 In (1.5 Mm)	122 °F	50.0 °C	
0.12 In (3.0 Mm)	122 °F	50.0 °C	
RTI Imp			UL 746B
0.06 In (1.5 Mm)	122 °F	50.0 °C	
0.12 In (3.0 Mm)	122 °F	50.0 °C	
RTI Str			UL 746B
0.06 In (1.5 Mm)	122 °F	50.0 °C	
0.12 In (3.0 Mm)	122 °F	50.0 °C	



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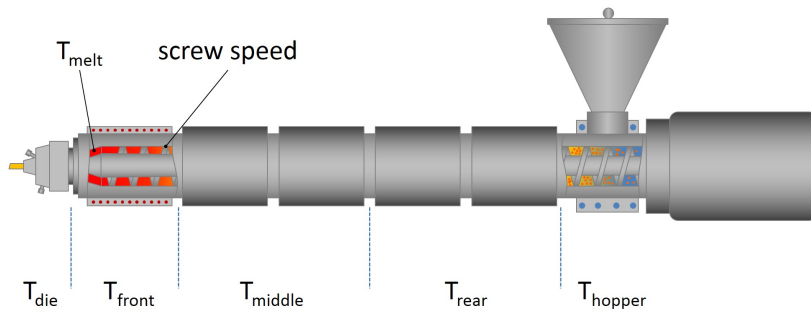
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Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 In (1.5 Mm), All Colors	HB	HB	
0.12 In (3.0 Mm), All Colors	HB	HB	
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (60°, High Gloss Surface, Untextured)	90 to 100	90 to 100	ASTM D2457

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Extrusion	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 to 200 °F	82 to 93 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Suggested Max Moisture	0.02 %	0.02 %
Suggested Max Regrind	40 %	40 %
Melt Temperature	410 to 465 °F	210 to 241 °C
Die Temperature	410 to 465 °F	210 to 241 °C

Extrusion Notes

Polish roll Top: Down stack 200°F, Up stack 200°F
Polish roll Middle: Down stack 165°F, Up stack 190°F
Polish roll Bottom: Down stack 200°F, Up stack 180°F

Notes

¹ 0.20 in/min (5.1 mm/min)

² 0.050 in/min (1.3 mm/min)

Notes

These are typical property values not to be construed as specification limits.