Technical Data Sheet

Centrex ASA 825A 90236 UV

Acrylonitrile Styrene Acrylate

Product Description

Centrex ASA 825A 90236 UV is a Acrylonitrile Styrene Acrylate material and is typically used in Extrusion, Sheet Extrusion, Thermoforming applications. Features include: Good Melt Strength, Good Weather Resistance, High Gloss, High Impact Resistance, and UV Resistant.

Processing Method	Extrusion; Sheet Extrusion
Attribute	Good Melt Strength; Good Weather Resistance; High Gloss; High Impact Resistance; UV Resistant
Forms	Pellets
Application	Marine Applications; Outdoor Applications; Sheet; Spas; Water Sports Equipment

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(230 °C/3.8 kg)	3.0	g/10 min	ASTM D1238
(220 °C/10.0 kg)	12	g/10 min	ASTM D1238
Density - Specific Gravity	1.05	g/cm³	ASTM D792
Mechanical			
Tensile Elongation at Yield	2.7	%	ASTM D638
Tensile Strength at Yield, (5.1 mm/min)	44.1	MPa	ASTM D638
Flexural Modulus, (1.3 mm/min, Tangent)	2100	MPa	ASTM D790
Tensile Modulus, (5.1 mm/min)	2280	MPa	ASTM D638
Flexural Strength, (1.3 mm/min)	48.3	MPa	ASTM D790
Impact			
Notched Izod Impact			
(23 °C, 3.18 mm)	210	J/m	ASTM D256
(-30 °C, 3.18 mm)	91	J/m	ASTM D256
(-18 °C, 3.18 mm)	110	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	77.7	°C	ASTM D648
Coefficent of Linear Thermal Expansion (CLTE), Flow, (-40 to 40 °C)	8.1E-5	cm/cm/°C	ASTM D696
Coefficent of Linear Thermal Expansion (CLTE), Perpendicular, (-40 to 4 °C)	1.1E-4	cm/cm/°C	ASTM D696

RTI Elec			
(1.5 mm)	50.0	°C	UL 746B
(3.0 mm)	50.0	°C	UL 746B
(0.75 mm)	50.0	°C	UL 746B
RTI Imp			
(1.5 mm)	50.0	°C	UL 746B
(3.0 mm)	50.0	°C	UL 746B
(0.75 mm)	50.0	°C	UL 746B
RTI Str			
(1.5 mm)	50.0	°C	UL 746B
(3.0 mm)	50.0	°C	UL 746B
(0.75 mm)	50.0	°C	UL 746B
Flammable			
Hot-wire Ignition (HWI)			UL 746A
Optical			
Gloss, (60°, Untextured, High Gloss Surface)	90 to 100		ASTM D2457
UL Information			
Flame Rating			
(1.5 mm)	HB		UL 94
(3.0 mm)	HB		UL 94
(0.75 mm)	HB		UL 94
UL File Number	E51193		
Outdoor Suitability			UL 746C

Extrusion Parameters	Nominal Value	Units
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	<0.020	%
Suggested Max Regrind	40	%
Drying Temperature	82 to 93	°C