

Centrex® 821

Acrylonitrile Styrene Acrylate
Network Polymers, Inc.

Message:

Centrex® 821 is an Acrylonitrile Styrene Acrylate (ASA) product. It can be processed by injection molding and is available in North America. Typical application: Automotive.
Characteristics include:
Flame Rated
REACH Compliant
RoHS Compliant
WEEE Compliant
Good Processability

General Information	
UL YellowCard	E51193-101898758
Features	Good Processability
	Good Weather Resistance
	High Heat Resistance
	Medium Gloss
	Medium Impact Resistance
Uses	Automotive Applications
	Automotive Exterior Parts
Agency Ratings	EC 1907/2006 (REACH)
	EU 2002/96/EC (WEEE)
RoHS Compliance	RoHS Compliant
UL File Number	E150937
Forms	Pellets
Processing Method	Injection Molding
Multi-Point Data	Isochronous Stress vs. Strain (ISO 11403-1)
	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/10.0 kg)	6.7	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus ¹	2480	MPa	ASTM D638
Tensile Strength ² (Yield)	43.4	MPa	ASTM D638
Flexural Modulus - Tangent ³	2410	MPa	ASTM D790
Flexural Strength ⁴	68.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	27	J/m	
23°C, 3.18 mm	160	J/m	
Instrumented Dart Impact			ASTM D3763
-40°C	1.00	J	
23°C	26.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.18 mm	79.4	°C	
1.8 MPa, Unannealed, 12.7 mm	87.8	°C	
Vicat Softening Temperature	112	°C	ASTM D1525 ⁵
CLTE - Flow	9.9E-5	cm/cm/°C	ASTM D696
RTI Elec (1.50 mm)	50.0	°C	UL 746
RTI Imp (1.50 mm)	50.0	°C	UL 746
RTI Str (1.50 mm)	50.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2 to 87.8	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.10	%	
Suggested Shot Size	50 to 70	%	
Suggested Max Regrind	20	%	
Rear Temperature	238 to 271	°C	
Middle Temperature	238 to 271	°C	
Front Temperature	238 to 271	°C	
Nozzle Temperature	238 to 271	°C	
Processing (Melt) Temp	238 to 271	°C	
Mold Temperature	65.6 to 87.8	°C	
Injection Rate	Moderate-Fast		
Screw L/D Ratio	20.0:1.0		
Screw Compression Ratio	2.5:1.0		
NOTE			
1.	5.1 mm/min		
2.	5.1 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		

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