Centrex® 814

Acrylonitrile Styrene Acrylate

Network Polymers, Inc.

Message:

Centrex® 814 is an Acrylonitrile Styrene Acrylate (ASA) product. It can be processed by injection molding and is available in North America. Applications of Centrex® 814 include sporting goods, decorative parts, electrical/electronic applications, household applications and marine applications.
Characteristics include:
Flame Rated
REACH Compliant
RoHS Compliant
WEEE Compliant
Good Processability

General Information	
UL YellowCard	E51193-101898756
Features	Good Processability Good Weather Resistance High Gloss High Impact Resistance
Uses	Decorative Displays Electronic Displays Lawn and Garden Equipment Marine Applications Outdoor Applications Spas Sporting Goods Water Sports Equipment
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	Isothermal Stress vs. Strain (ISO 11403-1) Secant Modulus vs. Strain (ISO 11403-1)

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/10.0 kg)	9.0	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)	101		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	2100	MPa	ASTM D638
Tensile Strength [2] (Yield)	38.6	MPa	ASTM D638
Flexural Modulus - Tangent [3]	2240	MPa	ASTM D790
Flexural Strength [4]	68.6	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-30°C, 3.18 mm	75	J/m	
23°C, 3.18 mm	270	J/m	
Instrumented Dart Impact			ASTM D3763
-30°C	8.20	J	
23°C	33.0	J	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.18 mm	71.1	°C	
1.8 MPa, Unannealed, 6.35 mm	76.7	°C	
Vicat Softening Temperature	101	°C	ASTM D1525 [5]
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	43.3 to 82.2	°C	
Injection Rate	Moderate		
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
5.	Rate B (120°C/h), Loading 1 (10 N)

Recommended distributors for this material

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