

Centrex 814

Acrylonitrile Styrene Acrylate

LyondellBasell Industries

Engineering Plastics

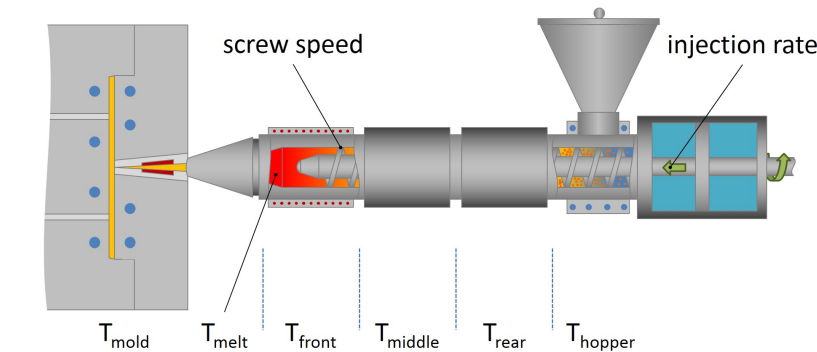
General			
Features	• Good Processability • Good Weather Resistance	• High Gloss • High Impact Resistance	• UV Resistant
Uses	• Decorative Displays • Electronic Displays • Lawn and Garden Equipment	• Marine Applications • Outdoor Applications • Spas	• Sporting Goods • Water Sports Equipment
Agency Ratings	• EC 1907/2006 (REACH) • EU 2002/96/EC (WEEE)		
RoHS Compliance	• RoHS Compliant		
UL File NumberUsa	• E150937		
Forms	• Pellets		
Processing Method	• Injection Molding		

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) (200°C/10.0 Kg)	9.0 g/10 min	9.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus ¹	304000 psi	2100 MPa	ASTM D638
Tensile Strength ¹ (Yield)	5600 psi	38.6 MPa	ASTM D638
Flexural Modulus - Tangent ²	325000 psi	2240 MPa	ASTM D790
Flexural Strength ²	9950 psi	68.6 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)	1.4 ft·lb/in	75 J/m	
73°F (23°C), 0.125 In (3.18 Mm)	5.0 ft·lb/in	270 J/m	
Instrumented Dart Impact			ASTM D3763
-22°F (-30°C)	72.6 in·lb	8.20 J	
73°F (23°C)	292 in·lb	33.0 J	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-scale)	101	101	ASTM D785
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)	160 °F	71.1 °C	
264 Psi (1.8 Mpa), Unannealed, 0.250 In (6.35 Mm)	170 °F	76.7 °C	
Vicat Softening Temperature	214 °F	101 °C	ASTM D1525 ³
RTI Elec (0.06 In (1.5 Mm))	122 °F	50.0 °C	UL 746B
RTI Imp (0.06 In (1.5 Mm))	122 °F	50.0 °C	UL 746B
RTI Str (0.06 In (1.5 Mm))	122 °F	50.0 °C	UL 746B
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94



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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 to 190 °F	82 to 88 °C
Drying Time	2.0 hr	2.0 hr
Suggested Max Moisture	0.10 %	0.10 %
Suggested Shot Size	50 to 70 %	50 to 70 %
Rear Temperature	460 to 520 °F	238 to 271 °C
Middle Temperature	460 to 520 °F	238 to 271 °C
Front Temperature	460 to 520 °F	238 to 271 °C
Nozzle Temperature	460 to 520 °F	238 to 271 °C
Processing (Melt) Temp	460 to 520 °F	238 to 271 °C
Mold Temperature	110 to 180 °F	43 to 82 °C
Injection Rate	Moderate	Moderate
Screw L/D Ratio	20.0:1.0	20.0:1.0
Screw Compression Ratio	2.5:1.0	2.5:1.0

Notes

- ¹ 0.20 in/min (5.1 mm/min)
- ² 0.050 in/min (1.3 mm/min)
- ³ Rate B (120°C/h), Loading 1 (10 N)

Notes

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

