Centrex® 810 Lustran Polymers - Acrylonitrile Styrene Acrylate Actions

Unit System: English

Legend (<u>Open</u>)

General Information Product Description Centrex 810® is a high flow, high gloss, medium impact grade ASA (Acrylonitrile- Styrene-Acrylate) resin. It is an injection molding grade with a good balance of physical properties, gloss and processing performance, along with good resistance to weather aging. As with any product, use of Centrex 810 must be tested (including field testing, etc.) in advance by the user to determine suitability. General Material Status Availability Test Standards Available Elow High						
 Features Gloss, High Weather Resistance, Good 						
Forms • Pellets	Forms • Pellets					
Processing Method • Injecti	on Molding					
ASTM and ISO Properties ¹			_			
Physical	Nominal Value	Unit	Test Method			
Density -Specific Gravity	1.06	sp gr 23/23°C	ASTM D792			
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	21	g/10 min	ASTM D1238			
Mold Shrink, Linear-Flow (Injection Molded)	0.0050 to 0.0060	in/in	ASTM D955			
Mechanical	Nominal Value	Unit	Test Method			
Tensile Modulus (Injection Molded)	357000	psi	ASTM D638			
Tensile Strength @ Yield (Injection Molded)	5900	psi	ASTM D638			
Flexural Modulus (Injection Molded)	347000	psi	ASTM D790			
Flexural Strength (Injection Molded)	10200	psi	ASTM D790			
Impact	Nominal Value	Unit	Test			

Notched Izod Impact			Method ASTM D256
(-22 °F, 0.125 in, Injection Molded) (32 °F, 0.125 in, Injection Molded) (73 °F, 0.125 in, Injection Molded)	1.00 1.20 1.60	ft·lb/in ft·lb/in ft·lb/in	
Instrumented Dart Impact			ASTM D3763
(-22 °F, Injection Molded)	Total Energy: 88.5	in∙lb	20100
(32 °F, Injection Molded)	Total Energy: 354	in∙lb	
(73 °F, Injection Molded)	Total Energy: 398	in∙lb	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Thermal	Nominal Value	Unit	Test Method
DTUL @66psi - Unannealed			ASTM D648
(0.125 in, Injection Molded) (0.250 in, Injection Molded)	183 194	°F °F	
DTUL @264psi - Unannealed			ASTM D648
(0.125 in, Injection Molded) (0.250 in, Injection Molded)	165 176	°F °F	2010
Vicat Softening Point			ASTM D1525
(120°C/hr, Loading 1 (10 N)) (50°C/hr, Loading 2 (50 N))	219 199	°F °F	21020
Processing Information Injection Drying Temperature Drying Time	Nominal Value 180 to 190 2 0		Unit °F br
Suggested Max Moisture	0.10		%
Rear Temperature	460 to 520		°F
Middle Temperature	460 to 520		°F
Front Temperature	460 to 5	460 to 520	
Processing (Melt) Temp	400 10 520 460 to 520		°F
	.00.000		•

Mold Temperature Injection Rate Injection Notes Inlet Air Dew Point: -20°F 110 to 180 Moderate

Notes

¹Typical properties: these are not to be construed as specifications.

Copyright ©, 2007 PolyOne Distribution Company The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained therefrom. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance. Because of the variation in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the application disclosed. Fullscale testing and end product performance are the responsibility of the user. PolyOne Distribution Company shall not be liable for and the customer assumes all risk and liability of any use or handling of any material beyond PolyOne Distribution Company's direct control. PolyOne Distribution Company MAKES NO WARRANTIES, EXPRESS OR IMPLIED, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendations, nor as an inducement to practice any patented invention without permission of the patent owner.

1.800.894.4266

PolyOne Distribution Company

http://www.polyonedistribution.com/