

Diamond ASA S225LG 1002 UVNAT

LyondellBasell Industries - Acrylonitrile Styrene Acrylate

General Information

Product Description

Diamond ASA S225LG 1002 UVNAT is a Acrylonitrile Styrene Acrylate material and is typically used in Injection Molding applications. Features include: Good Weather Resistance, and Low Fogging.

General

Features	<ul style="list-style-type: none"> • Good Weather Resistance • Low Fogging
Forms	<ul style="list-style-type: none"> • Pellets
Processing Method	<ul style="list-style-type: none"> • Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.07		ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	11	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield, 73°F, 0.125 in, Injection Molded	6190	psi	
Tensile Strength ²			ASTM D638
Break, 73°F, 0.125 in, Injection Molded	5500	psi	
Tensile Elongation ²			ASTM D638
Yield, 73°F, 0.125 in, Injection Molded	3.2	%	
Tensile Elongation ²			ASTM D638
Break, 73°F, 0.125 in, Injection Molded	42	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in, Injection Molded)	1.5	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.125 in, Injection Molded	171	°F	
Vicat Softening Temperature	221	°F	ASTM D1525 ³

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176 to 185	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	40 to 70	%
Rear Temperature	446 to 500	°F
Middle Temperature	450 to 500	°F
Front Temperature	455 to 500	°F
Nozzle Temperature	428 to 500	°F
Processing (Melt) Temp	428 to 500	°F
Mold Temperature	160 to 180	°F
Injection Rate	Fast	
Back Pressure	75.0 to 149	psi