

Diamond ASA S225 LG

Acrylonitrile Styrene Acrylate
Network Polymers, Inc.

Message:

Diamond ASA S225 LG is an Acrylonitrile Styrene Acrylate (ASA) product. It can be processed by injection molding and is available in North America. Characteristics include:
REACH Compliant
RoHS Compliant
WEEE Compliant
Good Weather Resistance

General Information			
Features	Good Weather Resistance		
	Low to No Fogging		
Agency Ratings	EC 1907/2006 (REACH)		
	EU 2002/96/EC (WEEE)		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow (23°C, 3.18 mm, Injection Molded)	0.40 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield, 23°C, 3.18 mm, Injection Molded	42.7	MPa	
Break, 23°C, 3.18 mm, Injection Molded	37.9	MPa	
Tensile Elongation ²			ASTM D638
Yield, 23°C, 3.18 mm, Injection Molded	3.2	%	
Break, 23°C, 3.18 mm, Injection Molded	42	%	
Flexural Modulus - Tangent ³ (23°C, 3.18 mm, Injection Molded)	2030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	81	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm, Injection Molded)	77.2	°C	ASTM D648
Vicat Softening Temperature	105	°C	ASTM D1525 ⁴

Injection	Nominal Value	Unit
Drying Temperature	80.0 to 85.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	40 to 70	%
Suggested Max Regrind	25	%
Rear Temperature	230 to 260	°C
Middle Temperature	232 to 260	°C
Front Temperature	235 to 260	°C
Nozzle Temperature	220 to 260	°C
Processing (Melt) Temp	220 to 260	°C
Mold Temperature	71.1 to 82.2	°C
Injection Rate	Fast	
Back Pressure	0.517 to 1.03	MPa

NOTE

1. Type I, 51 mm/min
2. Type I, 51 mm/min
3. Method I (3 point load), 1.3 mm/min
4. Loading 1 (10 N)

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