

Diamond ASA 2020 LG50 NAT

LyondellBasell Industries - Acrylonitrile Styrene Acrylate

General Information

Product Description

Diamond ASA 2020 LG50 NAT is a Acrylonitrile Styrene Acrylate material and is typically used in Injection Molding applications. Features include: Good Weather Resistance, and Medium Impact Resistance.

General

Features	<ul style="list-style-type: none"> • Good Weather Resistance • Medium Impact Resistance
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	1.06		ASTM D792
Melt Mass-Flow Rate (MFR) ² (220°C/10.0 kg)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Yield)	6500	psi	ASTM D638
Tensile Elongation (Yield)	2.8	%	ASTM D638
Tensile Elongation (Break)	23	%	ASTM D638
Flexural Modulus - Tangent ⁴	310000	psi	ASTM D790
Flexural Strength	9400	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	2.1	ft-lb/in	ASTM D256

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176 to 185	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Suggested Shot Size	40 to 70	%
Rear Temperature	446 to 500	°F
Middle Temperature	450 to 509	°F
Front Temperature	455 to 522	°F
Nozzle Temperature	428 to 522	°F
Processing (Melt) Temp	428 to 522	°F
Mold Temperature	104 to 176	°F
Injection Rate	Fast	
Back Pressure	75.0 to 149	psi

Notes

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

² Procedure A

³ 2.0 in/min

⁴ 0.051 in/min