

Diamond ASA S310 90219 UVWHI

LyondellBasell Industries - Acrylonitrile Styrene Acrylate

General Information

Product Description

Diamond ASA S310 90219 UVWHI is a Acrylonitrile Styrene Acrylate material and is typically used in Injection Molding applications. Features include: Good Stiffness, Good Weather Resistance, and Medium Impact Resistance.

General

Features	• Good Stiffness	• Good Weather Resistance	• Medium Impact Resistance
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.06		ASTM D792
Melt Mass-Flow Rate (MFR) ² (230°C/3.8 kg)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Yield)	6800	psi	ASTM D638
Flexural Modulus - Tangent ⁴	350000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	2.6	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.125 in	174	°F	
264 psi, Unannealed, 0.250 in	180	°F	
Vicat Softening Temperature	203	°F	ASTM D1525 ⁵

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

⁵ Loading 1 (10 N)