

# Diamond ASA S210 40027 UVBZO

LyondellBasell Industries - Acrylonitrile Styrene Acrylate

## General Information

### Product Description

Diamond ASA S210 40027 UVBZO is a Acrylonitrile Styrene Acrylate material and is typically used in Injection Molding applications. Features include: Good Weather Resistance, Medium Heat Resistance, and Medium Impact Resistance.

### General

Features	<ul style="list-style-type: none"> <li>• Good Weather Resistance</li> <li>• Medium Heat Resistance</li> <li>• Medium Impact Resistance</li> </ul>
Forms	<ul style="list-style-type: none"> <li>• Pellets</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>• Injection Molding</li> </ul>

## Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.06		ASTM D792
Melt Mass-Flow Rate (MFR) <sup>2</sup>			ASTM D1238
200°C/5.0 kg	1.8	g/10 min	
220°C/10.0 kg	18	g/10 min	
230°C/3.8 kg	5.4	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>3</sup> (Yield)	6660	psi	ASTM D638
Tensile Elongation <sup>3</sup> (Yield)	2.0	%	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	25	%	ASTM D638
Flexural Modulus - Tangent <sup>4</sup>	339000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.9	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.125 in	183	°F	
264 psi, Unannealed, 0.250 in	192	°F	
Vicat Softening Temperature	221	°F	ASTM D1525 <sup>5</sup>

## 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