

## Technical Data Sheet

### *Diamond* ASA S950 90185 UVWHI

Acrylonitrile Styrene Acrylate

#### Product Description

*Diamond* ASA S950 90185 UVWHI is a Acrylonitrile Styrene Acrylate material and is typically used in Injection Molding applications. Features include: Good Weather Resistance, and Ultra High Impact Resistance.

**Processing Method** Injection Molding

**Attribute** Good Weather Resistance; Ultra High Impact Resistance

**Forms** Pellets

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
Melt Flow Rate			
(200 °C/5.0 kg, Procedure A)	0.80	g/10 min	ASTM D1238
(230 °C/3.8 kg, Procedure A)	2.5	g/10 min	ASTM D1238
Density - Specific Gravity	1.07	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
Tensile Strength at Yield, (51 mm/min)	35.9	MPa	ASTM D638
Flexural Modulus, (1.3 mm/min, Tangent)	1610	MPa	ASTM D790
<b>Impact</b>			
Notched Izod Impact, (23 °C, 3.18 mm)	430	J/m	ASTM D256
<b>Hardness</b>			
Rockwell Hardness, (R-Scale)	87		ASTM D785
<b>Thermal</b>			
Vicat Softening Temperature, (Loading 1 (10 N))	104	°C	ASTM D1525
Deflection Temperature Under Load Annealed (264 psi), (3.18 mm)	91.1	°C	ASTM D648
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	75.0	°C	ASTM D648

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	80 to 85	°C
Suggested Max Moisture	0.1	%
Nozzle Temperature	220 to 272	°C
Processing (Melt) Temp	220 to 272	°C
Front Temperature	235 to 272	°C
Suggested Shot Size	40 to 70	%
Middle Temperature	232 to 265	°C
Rear Temperature	230 to 260	°C
Injection Rate	Fast	
Back Pressure	0.517 to 1.03	MPa
Mold Temperature	40 to 80	°C

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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