Technical Data Sheet

Diamond Asa S150UC.7313 F9A Green

Acrylonitrile Styrene Acrylate
LyondellBasell Industries
Engineering Plastics

General	
Material Status	• Commercial: Active [1]
Availability	• North America
Features	• Good Weather Resistance
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.07	1.07 g/cm³	ASTM D792A
Melt Mass-Flow Rate (MFR) [2] (260°C/2.16 kg)	12 g/10 min	12 g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	11 cm³/10min	11 cm³/10min	ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus	202000 psi	1390 MPa	ISO 527-1/50
Tensile Stress (Yield, 73°F (23°C))	5570 psi	38.4 MPa	ISO 527-2/50
Flexural Modulus [3] (73°F (23°C))	281000 psi	1940 MPa	ISO 178
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	8.3 ft·lb/in²	17 kJ/m²	ISO 179
Notched Izod Impact Strength (73°F (23°C))	11 ft·lb/in²	23 kJ/m²	ISO 180
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	168 °F	75.3 °C	

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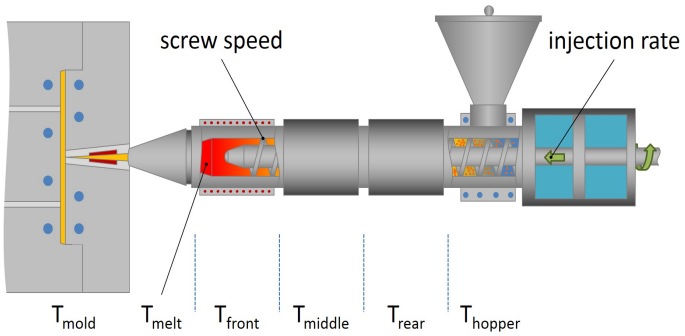

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 to 185 °F	80 to 85 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	0.10 %	0.10 %
Suggested Shot Size	40 to 70 %	40 to 70 %
Rear Temperature	446 to 500 °F	230 to 260 °C
Middle Temperature	450 to 509 °F	232 to 265 °C
Front Temperature	455 to 522 °F	235 to 272 °C
Nozzle Temperature	428 to 522 °F	220 to 272 °C
Processing (Melt) Temp	428 to 522 °F	220 to 272 °C
Mold Temperature	104 to 176 °F	40 to 80 °C
Injection Rate	Fast	Fast
Back Pressure	75.0 to 150 psi	0.517 to 1.03 MPa

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Notes

[1] This is a preliminary TDS based on one lot of material produced.

[2] Procedure A

[3] 0.051 in/min (1.3 mm/min)

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.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

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

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