Technical Data Sheet

Diamond ASA S210 40030 UVBWN

Acrylonitrile Styrene Acrylate

Product Description

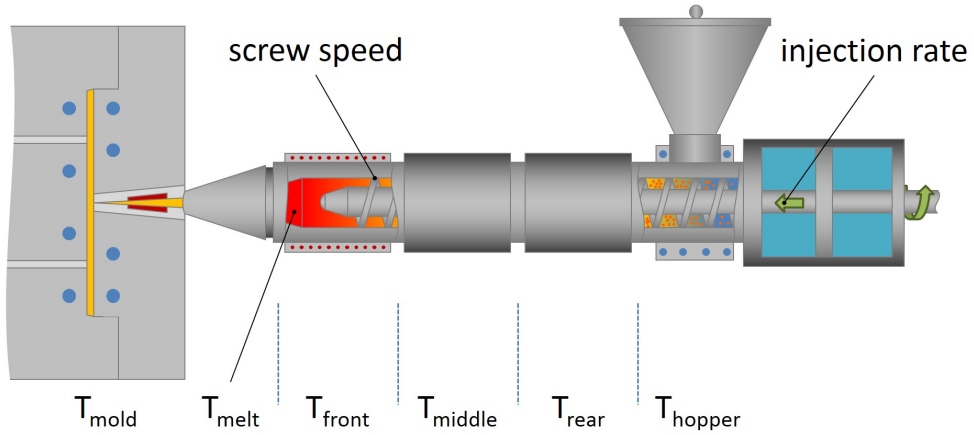
Diamond ASA S210 40030 UVBWN is a Acrylonitrile Styrene Acrylate material and is typically used in Injection Molding applications. Features include: Good Weather Resistance, Medium Heat Resistance, and Medium Impact Resistance.

Regulatory Status

For regulatory compliance information, see ASA S210 40030 UVBWN Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Status	Limited Issue
Availability	North America
Processing Method	Injection Molding
Attribute	Good Weather Resistance; Medium Heat Resistance; Medium Impact Resistance
Forms	Pellets

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(200 °C/5.0 kg, Procedure A)	1.8	g/10 min	ASTM D1238
(230 °C/3.8 kg, Procedure A)	5.4	g/10 min	ASTM D1238
(220 °C/10.0 kg, Procedure A)	18	g/10 min	ASTM D1238
Density - Specific Gravity	1.06	g/cm³	ASTM D792
Mechanical			
Tensile Elongation at Yield, (51 mm/min, Type I)	2.0	%	ASTM D638
Tensile Strength at Yield, (51 mm/min, Type I)	45.9	MPa	ASTM D638
Flexural Modulus, (1.3 mm/min, Tangent)	2340	MPa	ASTM D790
Tensile Elongation at Break, (51 mm/min, Type I)	25	%	ASTM D638
Impact			
Notched Izod Impact, (23 °C, 3.18 mm)	100	J/m	ASTM D256
Thermal			
Vicat Softening Temperature, (Loading 1 (10 N))	105	°C	ASTM D1525
Deflection Temperature Under Load Unannealed (264 psi)			
(3.18 mm)	83.9	°C	ASTM D648
(6.35 mm)	88.9	°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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