

Technical Data Sheet

Diamond ASA S246 1818 UV BLACK



Acrylonitrile Styrene Acrylate

Product Description

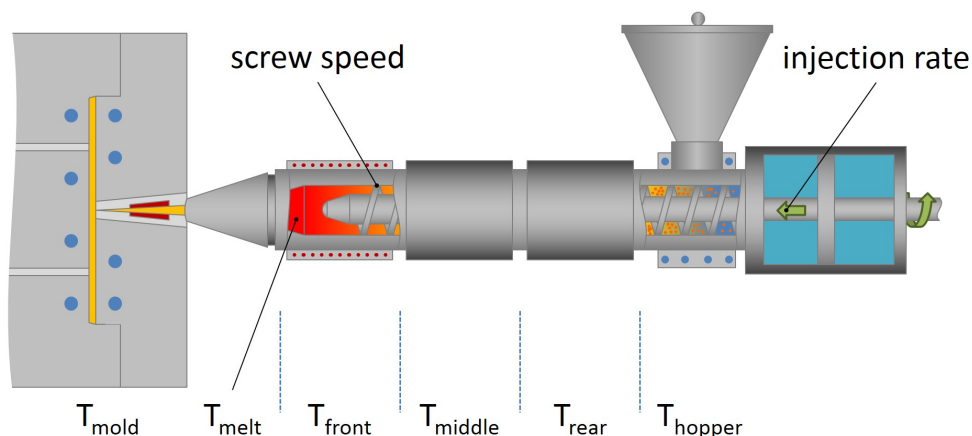
Diamond ASA S246 1818 UV BLACK is a Acrylonitrile Styrene Acrylate material and is typically used in Injection Molding applications. Features include: Good Flexibility, and Good Weather Resistance.

Regulatory Status

For regulatory compliance information, see ASA S246 1818 UV BLACK [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Processing Method	Injection Molding
Attribute	Good Flexibility; Good Weather Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (220 °C/10.0 kg, Procedure A)	20	g/10 min	ASTM D1238
Density - Specific Gravity	1.07	g/cm ³	ASTM D792
Mechanical			
Tensile Elongation at Yield, (51 mm/min, 23 °C, Injection Molded, Type I)	2.9	%	ASTM D638
Tensile Strength at Yield, (51 mm/min, 23 °C, Injection Molded, Type I)	45.9	MPa	ASTM D638
Flexural Modulus, (1.3 mm/min, 3.18 mm, Method I (3 point load), 50.8 mm, Tangent)	2500	MPa	ASTM D790
Tensile Modulus, (51 mm/min, 23 °C, Injection Molded, Type I, Tangent)	2570	MPa	ASTM D638
Impact			
Notched Izod Impact, (23 °C, 3.18 mm)	120	J/m	ASTM D256
Thermal			
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm, Injection Molded)	78.9	°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	0.02	%
Nozzle Temperature	220 to 260	°C
Processing (Melt) Temp	220 to 260	°C
Front Temperature	235 to 260	°C
Suggested Shot Size	40 to 70	%
Middle Temperature	232 to 260	°C
Rear Temperature	230 to 249	°C
Injection Rate	Fast	
Back Pressure	0.517 to 1.03	MPa
Mold Temperature	66 to 82	°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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