

Diamond ABS 1100 1402 SBLK

LyondellBasell Industries - Acrylonitrile Butadiene Styrene

General Information

Product Description

Diamond ABS 1100 1402 SBLK is a Acrylonitrile Butadiene Styrene material and is typically used in Injection Molding applications. Features include: High Gloss.

General

Features	• High Gloss
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.06		ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	3.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	7800	psi	ASTM D638
Flexural Modulus - Tangent ³	450000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	0.51	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed, 0.125 in	172	°F	ASTM D648
Deflection Temperature Under Load 264 psi, Annealed, 0.125 in	199	°F	ASTM D648
Vicat Softening Temperature	219	°F	ASTM D1525
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

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	%
Rear Temperature	374 to 482	°F
Middle Temperature	374 to 482	°F
Front Temperature	374 to 482	°F
Mold Temperature	104 to 176	°F
Injection Pressure	7010 to 11000	psi