Diamond ASA S210 1910 UVBLK

LyondellBasell Industries - Acrylonitrile Styrene Acrylate

General Information

Product Description

Diamond ASA S210 1910 UVBLK 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.

General

Features	• Good Weather Resistance	• Medium Heat Resistance	• Medium Impact Resistance
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) [2]			ASTM D1238
200°C/5.0 kg	1.8	g/10 min	
220°C/10.0 kg	18	g/10 min	
230°C/3.8 kg	5.4	g/10 min	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [3] (Yield)	6660	psi	ASTM D638
Tensile Elongation [3] (Yield)	2.0	%	ASTM D638
Tensile Elongation [3] (Break)	25	%	ASTM D638
Flexural Modulus - Tangent [4]	339000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.125 in)	1.9	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.125 in	183	°F	
264 psi, Unannealed, 0.250 in	192	°F	
Vicat Softening Temperature	221	°F	ASTM D1525 [5]

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	%
Suggested Shot Size	40 to 70	%
Rear Temperature	446 to 500	°F
Middle Temperature	450 to 509	°F
Front Temperature	455 to 522	°F
Nozzle Temperature	428 to 522	°F
Processing (Melt) Temp	428 to 522	°F
Mold Temperature	104 to 176	°F
Injection Rate	Fast	
Back Pressure	75.0 to 149	psi