



Centrex ASA 813 000000NAT

LyondellBasell Industries - Acrylonitrile Styrene Acrylate + AES

General Information

Product Description

Centrex ASA 813 000000NAT is a Acrylonitrile Styrene Acrylate + AES material and is typically used in Injection Molding applications. Features include: Good Processability, Good Weather Resistance, High Gloss, High Impact Resistance, Low Temperature Impact Resistance, and UV Resistant.

General

Features	<ul style="list-style-type: none"> • Good Processability • Good Weather Resistance 	<ul style="list-style-type: none"> • High Gloss • High Impact Resistance 	<ul style="list-style-type: none"> • Low Temperature Impact Resistance • UV Resistant
Uses	<ul style="list-style-type: none"> • Electronic Displays • Lawn & Garden Equipment 	<ul style="list-style-type: none"> • Marine Applications • Outdoor Applications 	<ul style="list-style-type: none"> • Water Sports Equipment
Forms	<ul style="list-style-type: none"> • Pellets 		
Processing Method	<ul style="list-style-type: none"> • Injection Molding 		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.05		ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (0.201 in)	290000	psi	ASTM D638
Tensile Strength ² (Yield)	4900	psi	ASTM D638
Flexural Modulus - Tangent ³	280000	psi	ASTM D790
Flexural Strength ³	7900	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°F, 0.125 in	0.99	ft·lb/in	
73°F, 0.125 in	7.7	ft·lb/in	
Instrumented Dart Impact			ASTM D3763
-40°F, Total Energy	195	in·lb	
73°F, Total Energy	292	in·lb	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	85		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.125 in	158	°F	
264 psi, Unannealed, 0.500 in	171	°F	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180 to 190	°F
Drying Time	2.0	hr
Suggested Max Moisture	0.10	%
Suggested Shot Size	50 to 70	%
Rear Temperature	460 to 520	°F
Middle Temperature	460 to 520	°F

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Injection	Nominal Value	Unit
Front Temperature	460 to 520	°F
Nozzle Temperature	460 to 520	°F
Processing (Melt) Temp	460 to 520	°F
Mold Temperature	151 to 190	°F
Injection Rate	Moderate-Fast	

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.20 in/min

³ 0.051 in/min