

Lustran® 308 NR

Acrylonitrile Butadiene Styrene
INEOS Styrolution Group GmbH

Message:

Lustran® 308 resin is a low gloss, easy-flowing grade of ABS (acrylonitrile butadiene styrene).

FEATURES

- Healthcare certifications
- Low gloss
- Easy flow
- balance of rigidity, impact strength and abuse resistance

APPLICATIONS

- Components of intravenous (IV)systems
- Surgical instruments
- Diagnostic test kits

General Information			
Features	Gloss, low		
	Good liquidity		
Uses	Surgical instruments		
	Medical/nursing supplies		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
220°C/10.0 kg	21	g/10 min	ASTM D1238
230°C/3.8 kg	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2210	MPa	ASTM D638
Tensile Strength (Yield, 23°C)	36.2	MPa	ASTM D638
Flexural Modulus	2450	MPa	ASTM D790
Flexural Strength	72.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	88.9	°C	ASTM D648
0.45 MPa, annealed	100	°C	ASTM D648

1.8 MPa, not annealed	75.6	°C	ASTM D648
1.8 MPa, annealed	95.0	°C	ASTM D648
Vicat Softening Temperature	106	°C	ASTM D1525 ¹
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	79	°C	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	218 - 260	°C	
Mold Temperature	29 - 60	°C	
NOTE			

1. 标准 B (120°C/h), 压力 1 (10N)

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