

Lustran® ABS 446

Acrylonitrile Butadiene Styrene

INEOS ABS (USA)

Message:

Lustran® 446 resin is a high-impact grade of ABS (Acrylonitrile Butadiene Styrene). This automotive injection molding grade provides a good balance of mechanical properties and impact strength for substrate applications. The resin is available in natural and black colors only.

Lustran 446 ABS resin is used in applications requiring impact and abuse resistance. Typical uses include various non-appearance interior structural components for automotive and truck-and-bus applications. As with any product, use of Lustran 446 ABS resin in a given application must be tested (including field testing, etc.) in advance by the user to determine suitability.

General Information			
Features	Impact resistance, high		
Uses	Application in Automobile Field		
	Car interior parts		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Black		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Specific Volume	0.950	cm ³ /g	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
220°C/10.0 kg	13	g/10 min	ASTM D1238
230°C/3.8 kg	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 - 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2480	MPa	ASTM D638
Tensile Strength			
Yield	41.4	MPa	ASTM D638
Yield	44.0	MPa	ISO 527-2
Flexural Modulus			
--	2520	MPa	ASTM D790
--	2540	MPa	ISO 178
Flexural Strength (Yield)	68.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C, 3.18 mm	360	J/m	ASTM D256
-40°C ¹	11	kJ/m ²	ISO 180/1A

23°C ²	30	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.18mm	90.0	°C	ASTM D648
1.8 MPa, unannealed, 3.18mm	76.7	°C	ASTM D648
Vicat Softening Temperature			
--	107	°C	ASTM D1525 ³
--	97.0	°C	ISO 306/B50
CLTE - Flow (-30 to 30°C)	8.8E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁴	30	mm/min	SAE J369
Injection	Nominal Value	Unit	
Drying Temperature			
A	82.2 - 87.8	°C	
B	71.1 - 76.7	°C	
Drying Time			
A	2.0	hr	
B	4.0	hr	
Suggested Max Moisture	< 0.10	%	
Suggested Shot Size	50 - 75	%	
Suggested Max Regrind	20	%	
Rear Temperature	235 - 249	°C	
Middle Temperature	241 - 254	°C	
Front Temperature	246 - 260	°C	
Nozzle Temperature	246 - 260	°C	
Processing (Melt) Temp	246 - 266	°C	
Mold Temperature	43.3 - 65.6	°C	
Injection Pressure	68.9 - 110	MPa	
Injection Rate	Fast		
Back Pressure	0.345 - 0.689	MPa	
Clamp Tonnage	2.8 - 5.5	kN/cm ²	
Cushion	< 6.35	mm	
Screw L/D Ratio	20.0:1.0		
Screw Compression Ratio	2.5:1.0		
Injection instructions			
Hold Pressure: 50 to 75% of Injection PressureScrew Speed: Moderate			
NOTE			
1.	4x10 mm bar		
2.	4x10 mm bar		
3.	标准 B (120°C/h), 压力1 (10N)		
4.	2x100x355 mm		

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