

Lustran® SAN LK 273

Styrene Acrylonitrile
INEOS ABS (USA)

Message:

Lustran SAN LK 273 resin is an injection molding grade of transparent SAN (styrene acrylonitrile) thermoplastic. The base resin used in the Lustran SAN LK 273 product is in chemical compliance with 21 CFR 181.32 (acrylonitrile copolymers and resins) for use in the manufacture of repeated-use houseware articles. Lustran SAN LK 273 has a large molding window and is easy to process. The resin is available in crystal (552160) tint.

General Information			
Features	Rigid, good		
	Impact resistance, good		
	Workability, good		
	Scratch resistance		
	Good chemical resistance		
	alkali resistance		
	acid resistance		
	Oil resistance		
	Grease resistance		
	Definition, high		
Uses	Cosmetic Packaging		
	Cup		
	Non-specific food applications		
	Household goods		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 181.32		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Specific Volume	0.930	cm ³ /g	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	7.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 - 0.40	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	83		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3300	MPa	ASTM D638
Tensile Strength (Break)	72.0	MPa	ASTM D638

Flexural Modulus	3400	MPa	ASTM D790
Flexural Strength (Yield)	115	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.20 mm)	21	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, unannealed, 12.7mm	96.0	°C	ASTM D648
1.8 MPa, annealed, 12.7mm	103	°C	ASTM D648
CLTE - Flow	6.8E-5	cm/cm/°C	ASTM D696
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.570		ASTM D542
Transmittance (3200 µm)	87.0 - 88.0	%	ASTM D1003
Haze (3200 µm)	0.70	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature			
A	82.0 - 88.0	°C	
B	71.0 - 77.0	°C	
Drying Time			
A	2.0	hr	
B	4.0	hr	
Suggested Max Moisture	0.20	%	
Suggested Shot Size	50 - 70	%	
Suggested Max Regrind	20	%	
Rear Temperature	170 - 185	°C	
Middle Temperature	185 - 200	°C	
Front Temperature	200 - 215	°C	
Nozzle Temperature	200 - 215	°C	
Processing (Melt) Temp	220 - 260	°C	
Mold Temperature	40.0 - 80.0	°C	
Injection Pressure	68.9 - 138	MPa	
Injection Rate	Moderate-Fast		
Back Pressure	0.00 - 0.172	MPa	
Clamp Tonnage	2.8 - 5.5	kN/cm ²	
Cushion	3.18	mm	
Screw L/D Ratio	20.0:1.0		
Screw Compression Ratio	2.5:1.0		
Injection instructions			

Screw Speed: ModerateInlet Air Dew Point: -20°FHold Pressure: 40 to 80% of the injection pressure

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

