

LEXAN™ SFX173RU resin

Polycarbonate

SABIC Innovative Plastics

Message:

SFX173RU is a transparent SecurFX grade with high flow, mold release and UV stabilizer. This grade is for security applications and contains proprietary authentication technology.

General Information			
Additive	demoulding		
	UV stabilizer		
Features	Good UV resistance		
	High liquidity		
	Good demoulding performance		
Appearance	Clear/transparent		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.70	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	1570	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	62.0	MPa	ASTM D638
Fracture	65.0	MPa	ASTM D638
Tensile Elongation ³			ASTM D638
Yield	8.0	%	ASTM D638
Fracture	120	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	2300	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 50.0 mm Span)	93.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	640	J/m	ASTM D256
Instrumented Dart Impact (23°C, Total Energy)	58.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	126	°C	ASTM D648
Vicat Softening Temperature	144	°C	ASTM D1525 ⁶
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	

Drying Time	3.0 - 4.0	hr
Drying Time, Maximum	48	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	40 - 60	%
Rear Temperature	249 - 271	°C
Middle Temperature	260 - 282	°C
Front Temperature	271 - 293	°C
Nozzle Temperature	266 - 288	°C
Processing (Melt) Temp	271 - 293	°C
Mold Temperature	71.1 - 93.3	°C
Back Pressure	0.345 - 0.689	MPa
Screw Speed	40 - 70	rpm
Vent Depth	0.025 - 0.076	mm

NOTE

- | | |
|----|---------------------------|
| 1. | 50 mm/min |
| 2. | Type 1, 50mm/min |
| 3. | Type 1, 50mm/min |
| 4. | 1.3 mm/min |
| 5. | 1.3 mm/min |
| 6. | 标准 B (120°C/h), 载荷2 (50N) |

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.

Recommended distributors for this material

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

