

ULTEM™ 1285 resin

Polyether Imide

SABIC Innovative Plastics

Message:

Transparent Polyetherimide blend. ECO Conforming. US FDA and EU Food Contact compliant in recognized colors.

General Information			
Features	Comply with ECO		
	Compliance of Food Exposure		
Agency Ratings	EU Eco		
	FDA Food Exposure, Not Rated		
	European food contact, not rated		
Appearance	Clear/transparent		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (295°C/6.6 kg)	8.1	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.60 - 0.70	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3380	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	110	MPa	ASTM D638
Fracture	82.7	MPa	ASTM D638
Tensile Elongation ³ (Break)	60	%	ASTM D638
Flexural Modulus ⁴ (100 mm Span)	3380	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 100 mm Span)	165	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	27	J/m	ASTM D256
Reverse Notch Izod Impact (3.20 mm)	950	J/m	ASTM D256
Instrumented Dart Impact (23°C, Total Energy)	40.7	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	165	°C	ASTM D648
Vicat Softening Temperature	181	°C	ASTM D1525 ⁶
Linear thermal expansion coefficient			ASTM E831
Flow: -40 to 40°C	4.9E-5	cm/cm/°C	ASTM E831
Lateral: -40 to 40°C	4.9E-5	cm/cm/°C	ASTM E831
Injection	Nominal Value	Unit	

Drying Temperature	121 - 149	°C
Drying Time	4.0 - 8.0	hr
Drying Time, Maximum	24	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	40 - 60	%
Rear Temperature	282 - 316	°C
Middle Temperature	288 - 321	°C
Front Temperature	293 - 327	°C
Nozzle Temperature	299 - 332	°C
Processing (Melt) Temp	299 - 332	°C
Mold Temperature	93.3 - 149	°C
Back Pressure	0.689 - 1.38	MPa
Screw Speed	50 - 100	rpm
Vent Depth	0.025 - 0.076	mm

NOTE

- | | |
|----|---------------------------|
| 1. | 5.0 mm/min |
| 2. | Type 1, 5.0 mm/min |
| 3. | Type 1, 5.0 mm/min |
| 4. | 2.6 mm/min |
| 5. | 2.6 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



WECHAT