

ULTEM™ D9065 resin

Polyether Imide

SABIC Innovative Plastics

Message:

Polyetherimide blend. Meets FAR 25.853 and OSU 65/65 with low toxicity, smoke, and flame evolution. ECO Conforming.

General Information			
Features	Low smoke		
	Low toxicity		
	Comply with ECO		
Agency Ratings	EU Eco		
	FAR 25.853		
	OSU 65/65		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	16	g/10 min	ASTM D1238
Molding Shrinkage			Internal method
Flow: 3.20mm	0.50 - 0.70	%	Internal method
Transverse flow: 3.20mm	0.50 - 0.70	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	3100	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	88.3	MPa	ASTM D638
Fracture	88.3	MPa	ASTM D638
Tensile Elongation ³ (Break)	100	%	ASTM D638
Flexural Modulus ⁴ (100 mm Span)	3100	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 100 mm Span)	124	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	96	J/m	ASTM D256
23°C	150	J/m	ASTM D256
Reverse Notch Izod Impact (3.20 mm)	2000	J/m	ASTM D256
Instrumented Dart Impact			ASTM D3763
-30°C, Energy at Peak Load	58.3	J	ASTM D3763
23°C, Energy at Peak Load	67.8	J	ASTM D3763
Flammability	Nominal Value	Unit	Test Method
OSU peak heat release rate ⁶	50.0	kW/m ²	FAR 25.853

OSU total heat release ⁷	10.0	kW · min/m ²	FAR 25.853
Injection	Nominal Value	Unit	
Drying Temperature	135	°C	
Drying Time	4.0 - 6.0	hr	
Drying Time, Maximum	24	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 - 60	%	
Rear Temperature	316 - 338	°C	
Middle Temperature	327 - 349	°C	
Front Temperature	338 - 360	°C	
Nozzle Temperature	332 - 354	°C	
Processing (Melt) Temp	338 - 360	°C	
Mold Temperature	135 - 163	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	40 - 70	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. 5 minute test
7. 2 minute test

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

