ULTEM™ Resin 9075 - Europe





Technical Data

onoral		ow toxicity, smoke, and flame evolution		
Seneral Matarial Status	Commercial: Active			
Material Status	<u> </u>			
Search for UL Yellow Card	SABICULTEM™ Resin			
Availability	• Europe			
Uses	 Additive Manufacturing (3D Printing) 	Aircraft Interiors	Rail Applications	
RoHS Compliance	 RoHS Compliant 			
Also Available In	Asia Pacific	Latin America	North America	
Physical		Nominal Value Unit	Test Method	
Density		1.32 g/cm ³	ISO 1183	
Melt Volume-Flow Rate (MVR) (340°C/5.0 kg)		15 cm ³ /10min	ISO 1133	
Molding Shrinkage - Flow ²		0.60 to 0.80 %	Internal Method	
Water Absorption			ISO 62	
Saturation, 23°C		1.3 %		
Equilibrium, 23°C, 50% RH		0.70 %		
/lechanical		Nominal Value Unit	Test Method	
Tensile Modulus		3200 MPa	ISO 527-2/1	
Tensile Stress			ISO 527-2/50	
Yield		90.0 MPa		
Break		75.0 MPa		
Tensile Strain			ISO 527-2/50	
Yield		6.0 %		
Break		25 %		
Flexural Modulus ³		3200 MPa	ISO 178	
Flexural Stress ³			ISO 178	
4		130 MPa		
5		120 MPa		
Taber Abrasion Resistance			Internal Method	
1000 g, CS-17 Wheel		15.0 mg		
mpact		Nominal Value Unit	Test Method	
Charpy Notched Impact Strength ⁶			ISO 179/1eA	
-30°C		6.0 kJ/m²		
23°C		7.0 kJ/m²		
Notched Izod Impact Strength ⁷			ISO 180/1A	
-30°C		5.0 kJ/m²		
23°C		7.0 kJ/m²		
lardness		Nominal Value Unit	Test Method	
Ball Indentation Hardness (H 358/30)	127 MPa	ISO 2039-1	



[hermal	Nominal Value Unit	Test Method
Heat Deflection Temperature ⁸		
0.45 MPa, Unannealed, 4.00 mm, 100 mm Span	200 °C	ISO 75-2/Be
1.8 MPa, Unannealed, 4.00 mm, 100 mm Span	185 °C	ISO 75-2/Ae
Vicat Softening Temperature		
	200 °C	ISO 306/B120 ISO 306/B50
	210 °C	ISO 306/A50
Ball Pressure Test (123 to 127°C)	Pass	IEC 60695-10-2
CLTE		ISO 11359-2
Flow: 23 to 150°C	5.0E-5 cm/cm/°C	
Transverse : 23 to 150°C	5.0E-5 cm/cm/°C	
Thermal Conductivity	0.26 W/m/K	ISO 8302
Flammability	Nominal Value Unit	Test Method
Flame Rating (1.6 mm, Testing by SABIC)	V-0	UL 94
Glow Wire Flammability Index (3.2 mm)	960 °C	IEC 60695-2-12
OSU Peak Heat Release Rate - 5 minute test	16.0	FAR 25.853
OSU Total Heat Release - 2 minute test	10.0	FAR 25.853
njection	Nominal Value Unit	
Drying Temperature	135 to 145 °C	
Drying Time	4.0 to 6.0 hr	
Suggested Max Moisture	0.020 %	
Suggested Shot Size	40 to 60 %	
Hopper Temperature	80 to 120 °C	
Rear Temperature	340 to 360 °C	
Middle Temperature	345 to 365 °C	
Front Temperature	350 to 370 °C	
Nozzle Temperature	350 to 370 °C	
Processing (Melt) Temp	350 to 370 °C	
Mold Temperature	135 to 165 °C	
	0.300 to 0.700 MPa	
Back Pressure		
Back Pressure Screw Speed	40 to 70 rpm	

Profile Extrusion Parameters

• Drying Temperature : 130 to 140 °C

• Drying Time : 4 to 6 hrs

• Maximum Moisture Content: 0.02 % • Melt Temperature : 295 to 330 °C

• Barrel - Zone 1 Temperature : 280 to 300 °C • Barrel - Zone 2 Temperature : 295 to 320 °C • Barrel - Zone 3 Temperature : 305 to 330 °C

• Barrel - Zone 4 Temperature : 310 to 335 °C Hopper Temperature: 80 to 100 °C • Adapter Temperature: 285 to 335 °C • Die Temperature : 275 to 330 °C • Calibrator Temperature : 140 to 170 °C

• Calibrator 2 Temperature : 90 to 130 °C



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PROSPECTO Polyether Imide **SABIC** www.ulprospector.com

Notes

- ¹ Typical properties: these are not to be construed as specifications. ² Tensile Bar
- ³ 2.0 mm/min
- ⁴ at Yield ⁵ at Break
- ⁶ 80*10*4 sp=62mm
- ⁷ 80*10*4 mm
- 8 120*10*4 mm



Form No. TDS-31768-en

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Polyether Imide

SABIC

PROSPECTOR® www.ulprospector.com

Where to Buy

Supplier

SABIC

Web: http://www.sabic.com/

Distributor

3Polymer (Guangzhou) Chemical Technology Co., Ltd.

Telephone: +86-20-3466-7988 Web: http://3polymer.com Availability: China

AECTRA

Telephone: +33-4-72-54-36-42 Web: https://www.aectra.fr/ Availability: Bulgaria, Romania

AGI-Augusto Guimarães & Irmão Telephone: +351-22753-7400 Web: https://www.agi.pt/en/ Availability: Portugal

GRÄSSLIN

Telephone: +49-7721-4040-261

Web: https://www.graesslin-kunststoffe.de

Availability: Germany

Guzmán Polymers

Telephone: +34-963-992-400

Web: https://www.guzmanglobal.com/en/productos/plastics/

Availability: Italy, Spain, Turkey

Lenorplastics

Telephone: +41-61-706-11-11 Web: https://www.lenorplastics.ch

Availability: Switzerland

Plastoplan

Telephone: +43-1-25040-0 Web: https://www.plastoplan.com/

Availability: Austria, Czech Republic, Hungary, Poland, Slovakia

POLYMIX

POLYMIX is a Pan European distribution company. Contact POLYMIX for availability of individual products by country.

Telephone: +33-3-8920-1380 Web: http://www.polymix.eu/

Availability: France

RESINEX Group

RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.

Telephone: +32-14-672511 Web: http://www.resinex.com/

Availability: Europe

Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.

Telephone: +32-11-57-95-57
Web: http://www.ultrapolymers.com/

Availability: Belgium, Netherlands, South Africa



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