

ULTEM™ CRS5111 resin

Polyether Imide
SABIC Innovative Plastics

Message:

10% Glass fiber filled, enhanced flow Polyetherimide copolymer (Tg 225C) with enhanced chemical resistance to strong acids, bases, aromatics, and ketones. ECO conforming, UL94 V0 and 5 VA listing.

General Information	
UL YellowCard	E121562-221117
Filler / Reinforcement	Glass Fiber,10% Filler by Weight
Features	ECO Compliant
	Good Chemical Resistance
Agency Ratings	EU Eco
Processing Method	Injection Molding
Multi-Point Data	Elastic Modulus vs Temperature (ASTM D4065)
	Flexural DMA (ASTM D4065)
	Tensile Stress vs. Strain (ASTM D638)
	Thermal Conductivity vs. Temperature (ASTM E1530)

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.36	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	6.9	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	4760	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	117	MPa	
Break	112	MPa	
Tensile Elongation ³ (Break)	4.0	%	ASTM D638
Flexural Modulus ⁴ (100 mm Span)	4900	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 100 mm Span)	193	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	37	J/m	ASTM D256
Reverse Notch Izod Impact (3.20 mm)	360	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	216	°C	ASTM D648
RTI Elec	105	°C	UL 746
RTI Imp	105	°C	UL 746
RTI Str	105	°C	UL 746
Electrical	Nominal Value		Test Method

Arc Resistance ⁶	PLC 5	ASTM D495
Comparative Tracking Index (CTI)	PLC 4	UL 746
High Amp Arc Ignition (HAI)	PLC 4	UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 3	UL 746
Hot-wire Ignition (HWI)	PLC 0	UL 746
Flammability	Nominal Value	Test Method
	V-0	

Flame Rating (1.47 mm)	5VA	UL 94
Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	4.0 to 6.0	hr
Drying Time, Maximum	24	hr
Suggested Max Moisture	0.020	%
Suggested Shot Size	40 to 60	%
Rear Temperature	343 to 366	°C
Middle Temperature	354 to 377	°C
Front Temperature	366 to 388	°C
Nozzle Temperature	360 to 382	°C
Processing (Melt) Temp	366 to 388	°C
Mold Temperature	135 to 163	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm
Vent Depth	0.025 to 0.076	mm

NOTE		
1.	5.0 mm/min	
2.	Type I, 5.0 mm/min	
3.	Type I, 5.0 mm/min	
4.	2.6 mm/min	
5.	2.6 mm/min	
6.	Tungsten Electrode	

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