

ULTEM™ CRS5211R resin

Polyether Imide

SABIC Innovative Plastics

Message:

20% Glass fiber filled, enhanced flow Polyetherimide copolymer (Tg 225C) with internal mold release and enhanced chemical resistance to strong acids, bases, aromatics, and ketones. ECO conforming.

General Information			
UL YellowCard	E121562-101404949		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Mold Release		
Features	Copolymer ECO Compliant Good Chemical Resistance		
Agency Ratings	EU Eco		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	5.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	6890	MPa	ASTM D638
Tensile Strength ²			ASTM D638
Yield	138	MPa	
Break	145	MPa	
Tensile Elongation ³ (Break)	3.0	%	ASTM D638
Flexural Modulus ⁴ (100 mm Span)	6890	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 100 mm Span)	214	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	75	J/m	ASTM D256
Reverse Notch Izod Impact (3.20 mm)	460	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	218	°C	ASTM D648
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

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

