

ULTEM™ CRS5011 resin

Polyether Imide

SABIC Innovative Plastics

Message:

Transparent, Enhanced flow Polyetherimide copolymer (Tg 225C) with enhanced chemical resistance to strong acids, bases, aromatics, and ketones. ECO conforming, UL94 V0 listing.

General Information			
Features	Comply with ECO		
	Copolymer		
	Good liquidity		
	Good chemical resistance		
	alkali resistance		
	acid resistance		
Agency Ratings	EU Eco		
Appearance	Clear/transparent		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.40 - 0.70	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2900	MPa	ASTM D638
Tensile Strength ² (Yield)	100	MPa	ASTM D638
Tensile Elongation ³ (Break)	60	%	ASTM D638
Flexural Modulus ⁴ (100 mm Span)	3100	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 100 mm Span)	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	59	J/m	ASTM D256
Reverse Notch Izod Impact (3.20 mm)	2100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	204	°C	ASTM D648
RTI Elec	160	°C	UL 746
RTI Imp	155	°C	UL 746
RTI	160	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (3.20 mm, in Oil)	18	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
50 Hz	3.20		ASTM D150

60 Hz	3.20		ASTM D150
Dissipation Factor			ASTM D150
50 Hz	2.1E-3		ASTM D150
60 Hz	2.1E-3		ASTM D150
Arc Resistance ⁶	PLC 5		ASTM D495
Comparative Tracking Index (CTI)	PLC 4		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 2		UL 746
Hot-wire Ignition (HWI)	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.47 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	149	°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	343 - 366	°C	
Middle Temperature	354 - 377	°C	
Front Temperature	366 - 388	°C	
Nozzle Temperature	360 - 382	°C	
Processing (Melt) Temp	366 - 388	°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.	Tungsten electrode		

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