

Revision 20180905

ULTEMTM RESIN AR9200

REGION ASIA

DESCRIPTION

20% Glass fiber filled, standard flow Polyetherimide (Tg 217C). Meets FAR 25.853 and OSU 65/65 with low toxicity, smoke, and flame evolution. ECO Conforming.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	151	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3	%	ASTM D 638
Tensile Modulus, 5 mm/min	6960	MPa	ASTM D 638
Flexural Stress, yld, 2.6 mm/min, 100 mm span	206	MPa	ASTM D 790
Flexural Modulus, 2.6 mm/min, 100 mm span	7230	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	101	J/m	ASTM D 256
Izod Impact, Reverse Notched, 3.2 mm	534	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	211	°C	ASTM D 648
PHYSICAL			
Specific Gravity	1.4		ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.3 – 0.5	%	SABIC method
Melt Flow Rate, 337°C/6.6 kgf	5.7	g/10 min	ASTM D 1238
FLAME CHARACTERISTICS			
FAA Flammability, FAR 25.853 A/B	NATURAL		FAR 25.853
OSU total heat release (2 minute test)	5	kW-min/m²	FAR 25.853
OSU peak heat release rate (5 minute test)	40	kW/m²	FAR 25.853
Vertical Burn a (60s) passes at	0	sec	FAR 25.853
Vertical Burn b (12s) passes at	0	sec	FAR 25.853
NBS Smoke Density, Flaming, Dmax	5	-	ASTM E 662
NBS Smoke Density, Flaming, Ds 1.5 min	0	-	ASTM E 662
NBS Smoke Density, Flaming, Ds 4 min	5		ASTM E 662
INJECTION MOLDING			
Drying Temperature	150	°C	
Drying Time	4 - 6	hrs	
Drying Time (Cumulative)	24	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	365 – 390	°C	
Nozzle Temperature	360 - 380	°C	
Front - Zone 3 Temperature	365 – 390	°C	
Middle - Zone 2 Temperature	355 – 375	°C	
Rear - Zone 1 Temperature	345 – 365	°C	
Mold Temperature	135 – 165	°C	

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CHEMISTRY THAT MATTERS



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 - 70	rpm	
Shot to Cylinder Size	40 - 60	%	
Vent Depth	0.025 – 0.076	mm	

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