

ULTEM™ AR9300 resin

Polyether Imide

SABIC Innovative Plastics

Message:

30% Glass fiber filled, standard flow Polyetherimide (Tg 217C). Meets FAR 25.853 and OSU 65/65 with low toxicity, smoke, and flame evolution.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Features	Low smoke		
	Low toxicity		
Agency Ratings	FAR 25.853		
	OSU 65/65		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (360°C/5.0 kg)	6.00	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.20 - 0.40	%	Internal method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	160	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9500	MPa	ISO 527-2/1
Tensile Stress (Break)	165	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Flexural Modulus ²	8500	MPa	ISO 178
Flexural Stress	225	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ³			ISO 179/1eU
-30°C	40	kJ/m ²	ISO 179/1eU
23°C	40	kJ/m ²	ISO 179/1eU
Unnotched Izod Impact Strength ⁴			ISO 180/1U
-30°C	35	kJ/m ²	ISO 180/1U
23°C	35	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, unannealed, 100 mm span	212	°C	ISO 75-2/Be
1.8 MPa, unannealed, 100 mm span	208	°C	ISO 75-2/Ae

Vicat Softening Temperature			
--	220	°C	ISO 306/A50
--	210	°C	ISO 306/B50
--	215	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 150°C	1.7E-5	cm/cm/°C	ISO 11359-2
Horizontal: 23 to 150°C	4.2E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.29	W/m/K	ISO 8302
Flammability	Nominal Value	Unit	Test Method
OSU peak heat release rate ⁶	40.0	kW/m ²	FAR 25.853
OSU total heat release ⁷	5.00	kW·min/m ²	FAR 25.853
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	80.0 - 120	°C	
Rear Temperature	350 - 370	°C	
Middle Temperature	350 - 400	°C	
Front Temperature	350 - 410	°C	
Nozzle Temperature	350 - 410	°C	
Processing (Melt) Temp	350 - 400	°C	
Mold Temperature	135 - 140	°C	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	80*10*4 sp=62mm		
4.	80*10*4		
5.	120*10*4 mm		
6.	5 minute test		
7.	2 minute test		

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