

ULTEM™ 2210F resin

Polyether Imide

SABIC Innovative Plastics Europe

Message:

20% Glass fiber filled, enhanced flow Polyetherimide (Tg 217C). ECO Conforming. US FDA Food Contact compliant in recognized colors.

General Information	
UL YellowCard	E121562-221093
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight
Features	Comply with ECO
	Good liquidity
	Compliance of Food Exposure
Agency Ratings	
EU Eco	
FDA Food Exposure, Not Rated	

Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Water Absorption			ISO 62
Saturated, 23°C	1.0	%	ISO 62
Equilibrium, 23°C, 50% RH	0.55	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6900	MPa	ASTM D638
--	6800	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	139	MPa	ASTM D638
Yield	140	MPa	ISO 527-2/5
Fracture ³	140	MPa	ASTM D638
Fracture	140	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	4.0	%	ASTM D638
Yield	5.0	%	ISO 527-2/5
Fracture	5.0	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁵	6890	MPa	ASTM D790
-- ⁶	6500	MPa	ISO 178
Flexural Stress			
--	210	MPa	ISO 178
Yield, 50.0mm span ⁷	227	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁸ (23°C)	8.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact ⁹			ISO 180/1A
-30°C	5.0	kJ/m ²	ISO 180/1A
23°C	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact (23°C)	480	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	13.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	211	°C	ASTM D648
Vicat Softening Temperature			
--	226	°C	ASTM D1525 ¹⁰
--	212	°C	ISO 306/B50
--	218	°C	ISO 306/B120
NOTE			
1.	5.0 mm/min		
2.	Type 1, 5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	Type 1, 5.0 mm/min		
5.	1.3 mm/min		
6.	2.0 mm/min		
7.	1.3 mm/min		
8.	80*10*4 sp=62mm		
9.	80*10*4		
10.	标准 B (120°C/h), 载荷2 (50N)		

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