

ULTEM™ LTX300A resin

Polyether Imide

SABIC Innovative Plastics

Message:

High flow Polyetherimide blend with low toxicity, smoke and flame evolution. ECO Compliant, UL94 V0 listing in recognized colors.

General Information			
Features	Low smoke		
	Low toxicity		
	Comply with ECO		
	High liquidity		
Agency Ratings	EU Eco		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (295°C/6.6 kg)	2.4	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (340°C/5.0 kg)	15.0	cm³/10min	ISO 1133
Molding Shrinkage			Internal method
Flow ¹	0.60 - 0.80	%	Internal method
Flow: 3.20mm	0.50 - 0.70	%	Internal method
Transverse flow: 3.20mm	0.50 - 0.70	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	1.3	%	ISO 62
Equilibrium, 23°C, 50% RH	0.70	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	127	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ²	3310	MPa	ASTM D638
--	3200	MPa	ISO 527-2/1
Tensile Strength			
Yield ³	97.0	MPa	ASTM D638
Yield	90.0	MPa	ISO 527-2/5
Fracture ⁴	85.0	MPa	ASTM D638
Fracture	75.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁵	7.0	%	ASTM D638
Yield	6.0	%	ISO 527-2/5

Fracture ⁶	30	%	ASTM D638
Fracture	25	%	ISO 527-2/5
Flexural Modulus			
50.0mm span ⁷	3240	MPa	ASTM D790
-- ⁸	3200	MPa	ISO 178
Flexural Stress			
--	130	MPa	ISO 178
Yield, 50.0mm span ⁹	145	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	15.0	mg	Internal method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹⁰			ISO 179/1eA
-30°C	6.0	kJ/m ²	ISO 179/1eA
23°C	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ¹¹			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact			
23°C	69	J/m	ASTM D256
-30°C ¹²	5.0	kJ/m ²	ISO 180/1A
23°C ¹³	7.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	2100	J/m	ASTM D4812
-30°C ¹⁴	No Break		ISO 180/1U
23°C ¹⁵	No Break		ISO 180/1U
Reverse Notch Izod Impact (3.20 mm)	2100	J/m	ASTM D256
Instrumented Dart Impact (23°C, Total Energy)	40.0	J	ASTM D3763
Dart Drop Impact (23°C)	35.0	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 3.20mm	201	°C	ASTM D648
0.45 MPa, unannealed, 6.40mm	204	°C	ASTM D648
0.45 MPa, unannealed, 100 mm span ¹⁶	200	°C	ISO 75-2/Be
1.8 MPa, unannealed, 3.20mm	187	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	189	°C	ASTM D648
1.8 MPa, unannealed, 100 mm span ¹⁷	185	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	210	°C	ASTM D1525, ISO 306/A50 ¹¹ ¹⁸
--	200	°C	ISO 306/B50, ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Linear thermal expansion coefficient			

Flow: -40 to 150°C	5.0E-5	cm/cm/°C	ASTM E831
Flow: 23 to 150°C	5.0E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 150°C	5.0E-5	cm/cm/°C	ASTM E831
Horizontal: 23 to 150°C	5.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.26	W/m/K	ISO 8302
Flammability	Nominal Value		Test Method
Flame Rating (0.750 mm, Testing by SABIC)	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	135	°C	
Drying Time	4.0 - 6.0	hr	
Drying Time, Maximum	10	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 - 60	%	
Rear Temperature	338 - 360	°C	
Middle Temperature	343 - 366	°C	
Front Temperature	349 - 371	°C	
Nozzle Temperature	349 - 371	°C	
Processing (Melt) Temp	349 - 371	°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.	Tensile Bar		
2.	5.0 mm/min		
3.	Type 1, 5.0 mm/min		
4.	Type 1, 5.0 mm/min		
5.	Type 1, 5.0 mm/min		
6.	Type 1, 5.0 mm/min		
7.	1.3 mm/min		
8.	2.0 mm/min		
9.	1.3 mm/min		
10.	80*10*4 sp=62mm		
11.	80*10*4 sp=62mm		
12.	80*10*4		
13.	80*10*4		
14.	80*10*4		
15.	80*10*4		
16.	120*10*4 mm		
17.	120*10*4 mm		
18.	标准 B (120°C/h), 载荷2 (50N)		

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