

LEXAN™ XHT3143T resin

Polycarbonate

SABIC Innovative Plastics Europe

Message:

XHT3143T is a high flow, UV stabilized, high heat polycarbonate copolymer. It is only available in limited transparent colours

General Information			
Additive	UV Stabilizer		
Features	Copolymer		
	Good UV Resistance		
	High Flow		
	High Heat Resistance		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (330°C/2.16 kg)	33	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (330°C/2.16 kg)	30.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.60 to 0.90	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	0.30	%	
Equilibrium, 23°C, 50% RH	0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2700	MPa	ASTM D638
--	2500	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	70.0	MPa	ASTM D638
Yield	70.0	MPa	ISO 527-2/50
Break ³	55.0	MPa	ASTM D638
Break	60.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	6.0	%	ASTM D638
Yield	6.0	%	ISO 527-2/50
Break ⁵	70	%	ASTM D638
Break	70	%	ISO 527-2/50
Flexural Modulus			
50.0 mm Span ⁶	2600	MPa	ASTM D790

-- ⁷	2500	MPa	ISO 178
Flexural Stress			
--	80.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	120	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹			ISO 179/1eA
-30°C	9.0	kJ/m ²	
23°C	11	kJ/m ²	
Charpy Unnotched Impact Strength ¹⁰			ISO 179/1eU
-30°C	No Break		
23°C	No Break		
Notched Izod Impact			
-30°C	55	J/m	ASTM D256
23°C	97	J/m	ASTM D256
-30°C ¹¹	9.0	kJ/m ²	ISO 180/1A
23°C ¹²	9.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ¹³			ISO 180/1U
-30°C	No Break		
23°C	No Break		
Instrumented Dart Impact (23°C, Total Energy)	68.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	166	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	156	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁴	152	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	170	°C	ASTM D1525, ISO 306/B120 10 ¹⁵
--	168	°C	ISO 306/B50
CLTE			ASTM E831, ISO 11359-2
Flow : -40 to 40°C	6.0E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.0E-5	cm/cm/°C	
Injection	Nominal Value	Unit	
Drying Temperature	135	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 to 60	%	
Rear Temperature	280 to 300	°C	
Middle Temperature	290 to 310	°C	
Front Temperature	300 to 325	°C	
Nozzle Temperature	295 to 320	°C	
Processing (Melt) Temp	300 to 325	°C	

Mold Temperature	95.0 to 130	°C
Back Pressure	0.300 to 0.700	MPa
Screw Speed	40 to 90	rpm
Vent Depth	0.025 to 0.080	mm

NOTE

1.	5.0 mm/min
2.	Type I, 50 mm/min
3.	Type I, 50 mm/min
4.	Type I, 50 mm/min
5.	Type I, 50 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	80*10*3 sp=62mm
10.	80*10*3 sp=62mm
11.	80*10*3
12.	80*10*3
13.	80*10*3
14.	80*10*4 mm
15.	Rate B (120°C/h), Loading 2 (50 N)

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