

Latilon 30D-V0

Polycarbonate

LATI S.p.A.

Message:

Polycarbonate (PC) based compound.

UL94 V-0 classified, with brominated flame retardants, PBB/PBDE and antimony trioxide free. Low smoke density and low toxicity index. Very high dimensional stability. Very good surface appearance.

General Information	
Additive	Flame Retardant
Features	Antimony Free
	Brominated
	Flame Retardant
	Good Dimensional Stability
	Good Surface Finish
	Low Smoke Emission

Physical	Nominal Value	Unit	Test Method
Density	1.21	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.60 to 0.75	%	
Flow : 2.00 mm	0.55 to 0.75	%	
Water Absorption (23°C, 24 hr)	0.050	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	2500	MPa	
60°C	2200	MPa	
90°C	1900	MPa	
120°C	1700	MPa	
Tensile Stress			ISO 527-2/5
Yield, 23°C	70.0	MPa	
Yield, 60°C	60.0	MPa	
Yield, 90°C	55.0	MPa	
Yield, 120°C	40.0	MPa	
Break, 23°C	55.0	MPa	
Break, 60°C	35.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 23°C	8.0	%	
Yield, 60°C	6.0	%	
Yield, 90°C	4.0	%	
Yield, 120°C	2.5	%	

Break, 23°C	80	%	
Break, 60°C	70	%	
Break, 90°C	> 100	%	
Break, 120°C	> 100	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	135	°C	ISO 75-2/B
1.8 MPa, Unannealed	130	°C	ISO 75-2/A
Continuous Use Temperature ²	120	°C	
Vicat Softening Temperature	140	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	3.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (Solution A)	200	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-2		
1.50 mm	V-0		
Oxygen Index	36	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	120 to 130	°C	
Drying Time	3.0	hr	
Suggested Max Regrind	15	%	
Processing (Melt) Temp	260	°C	
Mold Temperature	90.0 to 110	°C	
Injection Rate	Moderate		
NOTE			
1.	60 MPa		
2.	20,000 hr		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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