

Generic CAP

Cellulose Acetate Propionate
Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.19 - 1.21	g/cm ³	ASTM D792
23°C	1.19 - 1.21	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (210°C/2.16 kg)	6.74 - 10.4	cm ³ /10min	ISO 1133
Water Absorption (23°C, 24 hr)	1.4 - 1.7	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	55 - 96		ASTM D785
Ball Indentation Hardness	56.0 - 65.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1290 - 1810	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	22.1 - 33.5	MPa	ASTM D638
Yield, 23°C	30.0 - 40.0	MPa	ISO 527-2
Fracture, 23°C	27.4 - 41.4	MPa	ASTM D638
Tensile Strain			
Yield, 23°C	4.0	%	ISO 527-2
Fracture, 23°C	29 - 45	%	ASTM D638
Fracture, 23°C	28 - 35	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	30 - 40	%	ISO 527-2
Flexural Modulus (23°C)	1160 - 1860	MPa	ASTM D790
Flexural Strength			
23°C	31.4 - 42.7	MPa	ASTM D790
23°C	39.4 - 45.0	MPa	ISO 178
Yield, 23°C	29.0 - 55.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0 - 30	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	240 - 530	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, annealed	77.0 - 92.2	°C	ASTM D648
1.8 MPa, not annealed	71.0 - 82.2	°C	ASTM D648

1.8 MPa, not annealed	81.5 - 90.6	°C	ISO 75-2/A
1.8 MPa, annealed	67.0 - 82.3	°C	ASTM D648
Vicat Softening Temperature			
--	87.0 - 107	°C	ASTM D1525
--	86.0 - 96.5	°C	ISO 306
CLTE - Flow	2.0E-5 - 2.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+15 - 1.0E+16	ohms·cm	IEC 60093
Injection	Nominal Value	Unit	
Processing (Melt) Temp	207 - 243	°C	
Mold Temperature	43.3 - 73.9	°C	
Injection instructions			

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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

