

Rotuba CAP CP811

Cellulose Acetate Propionate

Rotuba Extruders, Inc.

Message:

Rotuba CAP CP811 is a cellulose acetate propionate (CAP) product. It can be processed by injection molding and is available in North America. The application areas of Rotuba CAP CP811 include optics/lenses, containers and handles.

Features include:

environmental protection/green

Good dimensional stability

Good toughness

good weather resistance

General Information			
Features	Good dimensional stability		
	Updatable resources		
	Good strength		
	Good weather resistance		
	Good toughness		
Uses	Handle		
	Optical applications		
	Container		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 - 0.60	%	ASTM D955
Water Absorption (24 hr)	1.6	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	17.2	MPa	ASTM D638
Fracture	17.2	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	896	MPa	ASTM D790
Flexural Strength	22.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	400	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	47.8	°C	ASTM D648
Vicat Softening Temperature	77.2	°C	ASTM D1525

Injection	Nominal Value	Unit
Processing (Melt) Temp	243	°C
Mold Temperature	74	°C

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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

