

ALCOM® PC 740/1.1 CF10

Polycarbonate
ALBIS PLASTIC GmbH

Message:

ALCOM® PC 740/1.1 CF10 is a Polycarbonate (PC) product filled with 10% carbon fiber. It can be processed by injection molding and is available in Asia Pacific, Europe, or North America. Applications of ALCOM® PC 740/1.1 CF10 include engineering/industrial parts and housings.

Characteristics include:

- Flame Rated
- REACH Compliant
- RoHS Compliant
- Conductive
- Heat Stabilizer

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Additive	Heat Stabilizer		
Features	Electrically Conductive		
	Heat Stabilized		
	High Stiffness		
Uses	Housings		
	Machine/Mechanical Parts		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	7.00	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7200	MPa	ISO 527-2
Tensile Stress (Break)	110	MPa	ISO 527-2
Tensile Strain (Break)	2.4	%	ISO 527-2
Flexural Modulus	6800	MPa	ISO 178
Flexural Stress	170	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength	40	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	141	°C	ISO 75-2/A
Vicat Softening Temperature	146	°C	ISO 306/B50

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+2	ohms	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-2		
3.00 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature			
Circulation Dryer	100 to 120	°C	
Desiccant Dryer	100 to 120	°C	
Drying Time			
Circulation Dryer	4.0 to 12	hr	
Desiccant Dryer	2.0 to 3.0	hr	
Processing (Melt) Temp	310 to 330	°C	
Mold Temperature	80.0 to 130	°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

