

ALTECH® PC ECO 2020/146 FR GF20

Polycarbonate
ALBIS PLASTIC GmbH

Message:

ALTECH®PC ECO 2020/146 FR GF20 is a polycarbonate (PC) product that contains 20% glass fiber reinforced materials. It can be processed by injection molding and is available in North America, Europe or the Asia-Pacific region. Typical application areas are: architectural applications.

Features include:

- Comply with REACH standard
- ROHS certification
- Flame Retardant
- Impact modification
- excellent release agent

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Additive	Impact modifier		
	Flame retardancy		
Features	Impact modification		
	Good demoulding performance		
	Flame retardancy		
Uses	Building materials		
	Architectural application field		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	17.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	5200	MPa	ISO 178
Flexural Stress	125	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
--	6.0	kJ/m ²	ISO 179/1eA
-40°C	4.0	kJ/m ²	ISO 179/1eA
-20°C	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
--	31	kJ/m ²	ISO 179/1eU
-40°C	30	kJ/m ²	ISO 179/1eU

-20°C	31	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	136	°C	ISO 75-2/A
Vicat Softening Temperature	143	°C	ISO 306/B50
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	120	°C	
Drying Time - Desiccant Dryer	2.0 - 6.0	hr	
Processing (Melt) Temp	280 - 300	°C	
Mold Temperature	80 - 120	°C	

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