

ALTECH® PC ECO 1000/141 FR IM

Polycarbonate
ALBIS PLASTIC GmbH

Message:

ALTECH®PC ECO 1000/141 FR IM is a polycarbonate (PC) product. It can be processed by injection molding and is available in North America, Europe or the Asia-Pacific region. ALTECH®The application fields of PC ECO 1000/141 FR IM include electrical/electronic applications, housing, engineering/industrial accessories and lighting equipment.

- Features include:
- flame retardant/rated flame
 - Comply with REACH standard
 - ROHS certification
 - Flame Retardant
 - Impact modification

General Information			
Additive	Impact modifier		
	UV stabilizer		
	Flame retardancy		
Features	Impact modification		
	Good demoulding performance		
	Flame retardancy		
Uses	Lighting Applications		
	Plug		
	Electrical/Electronic Applications		
	Connector		
	Shell		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	20	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	18.0	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2500	MPa	ISO 527-2
Tensile Stress	60.0	MPa	ISO 527-2
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength			ISO 179/1eA
--	60	kJ/m ²	ISO 179/1eA
-40°C	13	kJ/m ²	ISO 179/1eA
-20°C	19	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
--	No Break		ISO 179/1eU
-40°C	No Break		ISO 179/1eU
-20°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	120	°C	ISO 75-2/A
Vicat Softening Temperature	140	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm)	HB		UL 94
Glow Wire Flammability Index (2.0 mm)	960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature			
Dehumidification desiccant	100 - 120	°C	
Hot air dryer	100 - 120	°C	
Drying Time			
Dehumidification desiccant	2.0 - 3.0	hr	
Hot air dryer	4.0 - 12	hr	
Processing (Melt) Temp	270 - 310	°C	
Mold Temperature	80 - 110	°C	

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