

ALCOM® PC 740/4.14 RD1171-12LC

Polycarbonate
ALBIS PLASTIC GmbH

Message:

ALCOM®PC 740/4.14 RD1171-12LC is a polycarbonate (PC) product. It can be processed by injection molding and is available in North America, Europe or the Asia-Pacific region. ALCOM®The application fields of PC 740/4.14 RD1171-12LC include automobile industry and lighting equipment.
Features include:
flame retardant/rated flame
Comply with REACH standard
ROHS certification
Stable

General Information			
Additive	Processing stabilizer		
Features	Good liquidity		
Uses	Lighting Applications		
	Application in Automobile Field		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Appearance	Translucent		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.19	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	28.0	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	66.0	MPa	ISO 527-2
--	66.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	6.0	%	ISO 527-2
Fracture	70	%	ISO 527-2
Flexural Modulus	2450	MPa	ISO 178
Flexural Stress			ISO 178
3.5% strain	76.0	MPa	ISO 178
--	100	MPa	ISO 178
Flexural Deflection at Max Force	7.0	%	ISO 178
Fire Behavior, FMVSS (1.00 mm)	passed		ISO 37
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

--	12	kJ/m ²	ISO 179/1eA
-40°C	12	kJ/m ²	ISO 179/1eA
-20°C	12	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)	124	°C	ISO 75-2/A
Vicat Softening Temperature	142	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm	HB		UL 94
0.75 mm	V-2		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
1.0 mm	850	°C	IEC 60695-2-12
2.0 mm	850	°C	IEC 60695-2-12
	850		
3.0 mm	960	°C	IEC 60695-2-12
	850		
4.0 mm	960	°C	IEC 60695-2-12
Optical	Nominal Value	Unit	Test Method
Transmittance ¹ (Total, 1000 µm)	27.0	%	ASTM D1003
Haze ² (4000 µm)	16	%	ISO 13468
Injection	Nominal Value	Unit	
Drying Temperature - Desiccant Dryer	100 - 120	°C	
Drying Time - Desiccant Dryer	2.0 - 3.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	270 - 310	°C	
Mold Temperature	80 - 110	°C	
NOTE			
1.	T(Y), A, 2°		
2.	T(Y), A, 2°		

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