

KUBE PIR 21821

High Density Polyethylene

KUBE Electronics AG

Message:

Transmissive Plastic Injection Molding Granulates

For fresnel lenses and windows of PIR motion detectors, thermal imaging cameras and non-contact thermometers

Features:

The best material for fresnel lenses

Specially suited for thin parts

High transmission in the 7 to 14 µm central passive infrared (PIR) band

Choice of colors and MFI

RoHS and TSCA conform

Excellent visible light absorption available for low false alarm rate / VDS conformity

Special colors available on request

According to KUBE's experience, these materials exhibit no substantial loss of specification over 10 years

21821: for applications where the material is not exposed to light over long periods

General Information			
Features	Flame Retardant		
Uses	Lenses		
	Thin-walled Parts		
RoHS Compliance	RoHS Compliant		
Appearance	Colors Available		
	White		
Forms	Granules		
Physical	Nominal Value	Unit	Test Method
Density	0.951 to 0.960	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	17	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	825	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	23.1	MPa	
Break	11.6	MPa	
Tensile Strain			ISO 527-2
Yield	3.0	%	
Break	51	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	3.8	kJ/m ²	
23°C	3.7	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179

-30°C	97	kJ/m ²
23°C	97	kJ/m ²
Injection	Nominal Value	Unit
Drying Temperature	< 70.0	°C
Drying Time	2.0	hr
Hopper Temperature	50.0 to 70.0	°C
Rear Temperature	170 to 220	°C
Middle Temperature	200 to 220	°C
Front Temperature	210 to 220	°C
Nozzle Temperature	220 to 230	°C
Processing (Melt) Temp	130	°C

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