

KUBE PIR 22400a

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

22400a: best for white lenses with excellent IR transmission and outdoor stability

General Information			
Features	Good UV Resistance		
Uses	Lenses		
	Optical Applications		
	Outdoor Applications		
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	846	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	22.1	MPa	
Break	11.1	MPa	
Tensile Strain			ISO 527-2
Yield	3.0	%	
Break	50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	2.9	kJ/m ²	
23°C	3.7	kJ/m ²	

Charpy Unnotched Impact Strength		ISO 179
-30°C	98	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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