

# KUBE PIR 40703

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

40703: low density black / smoky

General Information			
Features	Flame Retardant		
	Good UV Resistance		
	Low Density		
Uses	Lenses		
	Outdoor Applications		
	Thin-walled Parts		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Colors Available		
Forms	Granules		
Physical	Nominal Value	Unit	Test Method
Density	0.951 to 0.960	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	17	g/10 min	ISO 1133
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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