

MGR125 - Specification

Poly Carbonate 1/4λ film

Item	Unit	Spec	
Effective Part Thickness	micrometer	Average	71μm
		Allowance	±5μm
Retardation Value	KOBRA-WFD (578.5mm)	Average	123nm
		Allowance	±5nm
Optical Axis	KOBRA-WFD	<1.0 deg	
Transmission	ISO13468-1	> 90 %	
Haze	ISO14782	<1.0 %	
Specific Gravity	-	1.2	
Absorption %, water absorption	23°C/24h	0.2 %	
Retardation Dispersion	450Re/550Re	1.08	
	650Re/550Re	0.97	
Photo-Elastic coefficients	10-12Pa-1	80	
Refractive Index	-	1.585	
Glass Transition Temperature	DSC 20°C/min	145°C	
Heat Resistance	85°C x 500h	Retardation change	-1.3nm
		Size Change (MD/TD)	-0.05% / -0.03%
Humidity Resistance	60°C x 90RH X 500h	Retardation change	-2.3nm
		Size Change (MD/TD)	0.02% / 0.02%
Heat Shock	85°C ⇔ 40°C x 300 cycle	Crack	N.D

***Measured value, not guaranteed value.**

Remedies and Limitations

Should any product fail to perform as warranted or for any other claims arising from the purchase of products from us, our liability and your remedy are strictly limited to the purchase price or replacement, at our sole option, of the product sold.

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