

Material and colour:

Acetate 1SP151R

Thickness:

12,5/10 Application:

Safety (Welding filters)

Requirements	According to	Test methods	Limits		Measured values	
Optical quality	ISO 16321-1 5.2.1	ISO 18526-1 6.1	Optical class: 1		Optical class: 1	
Spherical refractive power			±0.06 m ⁻¹		PASS m ⁻¹	
Astigmatic refractive power			0.06 m ⁻¹		PASS m ⁻¹	
Transmittance tv	ISO 16321-2 4.3.1.2	ISO 18526-2 7	≥1.2 ≤3.2 % Filter Category W5		≥1.2 ≤3.2 % Filter Category W5	
t(λ) 200nm 313nm			≤ 0,0003%		PASS	
t(λ) 313nm 365nm			≤ 0.30%		PASS	
t(λ) 365nm 400nm			≤ Tv		PASS	
t _{IRA} 780nm 1400 nm			≤ 3.5%		PASS	
Scattered light	ISO 16321-2 4.3.2	ISO 18526-2 14.2	≤ 1 (cd/m ²)/lx		Not misurable (cd/m ²)/lx	
Quality of material and surface	ISO 16321-1 7.3	Visual inspection of full size sheet	PASS	Visual inspection	PASS	Visual inspection
Basic impact resistance	ISO 16321-1 7.4	ISO 18526-3 7.3.1	PASS	Ø25,4mm; 66,8g; drop hight 1,27m	PASS	
High speed impact at 23 ± 5 °C	ISO 16321-1 7.10.1	ISO 18526-3 7.3.2.1	PASS	>45 m/sec steel ball Ø6,0 mm, 0,86 g velocity (45± 1,5/-0) m/sec	>80 <120 m/sec	
Resistance to Fogging	ISO 16321-1 7.13	ISO 18526-3 6.11	-	sec	-	sec
Resistance to ignition	ISO 16321-1 7.8	ISO 18526-3 6.10	PASS		PASS	