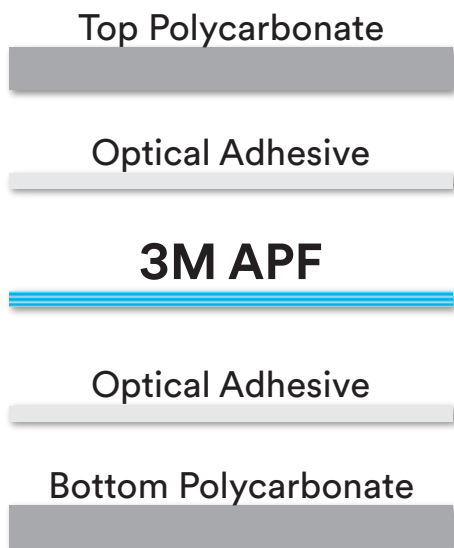


3M™ Automotive Reflective Polarizer (3M ARP 320)

Product Description

3M™ Automotive Reflective Polarizer (ARP 320) is a reflective polarizing film used in LCD displays to increase brightness over a wide viewing angle. It is a multilayer polyester-based film which has polycarbonate laminated to both sides.

Structure (not to scale)



Construction/Performance

Description	3M ARP 320
Thickness	320 ± 40 µm
Delamination	≤2.0 mm from edge, excluding tabs
Part Dimensions	Per approved drawing
Effective Transmission	Minimum 1.66
Color shift 0°	Δx: -0.010 to 0.010* Δy: -0.010 to 0.010
Color shift 60°	Δx: -0.030 to 0.030 Δy: -0.030 to 0.030
Haze	41.5 ±10%
Total Transmittance	49.0 ±5%

*Note: Δ is relative to backlight with no enhancement films

Automotive Environmental Testing

Testing condition:

ARP 320 is tested under the following conditions with film free floating.

Test	Condition
Humidity resistance	65°C/90% RH, 1000 hrs
Heat resistance	105°C for 1000 hours
Cold resistance	-40°C for 1000 hours
Thermal shock	95°C for 1 hr to -40°C for 1 hr, 300 cycles



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