

3M Display Materials & Systems Division

Technical Data 2017

3M™ Brightness Enhancement Films

(3M™ BEF)

- BEF2-T-155n Auto
- BEF3-T-155n Auto
- BEF3-T-205 ASn Auto
- AEF-155



3M™ Brightness Enhancement Films (BEF) manage the angular output of light from liquid crystal display backlights. 3M BEF films use a prismatic structure to focus light towards on-axis viewers of the display. 3M BEF films can be used alone or two films can be crossed at 90 degrees to each other.



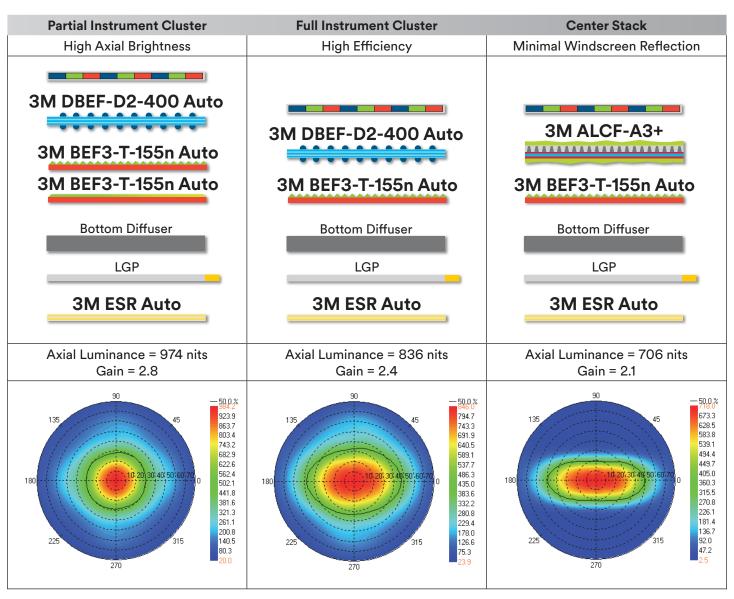
Construction/Performance

Product	3M BEF2-T-155n Auto	3M BEF3-T-155n Auto	3M BEF3-T-205 ASn Auto	3M AEF-155
Effective Transmission	1.56	1.53	1.5	1.6
Caliper (microns)	150 ± 10	155 ± 10	205 ± 15	152 ± 10
Prism Angle (degrees)	90	90	90	90
Prism Pitch (microns)	50	50	50	50
Non-halogenated	Yes	Yes	Yes	Yes

Automotive Environmental Testing

	Condition	Time
High Temperature	95°C	1000 hours
Low temperature	-40°C	1000 hours
Temperature/ Humidity	65°C/90%RH	1000 hours
Thermal Shock	-40°C to 95°C	1 hour dwell/ 100 cycles

Automotive Display - Recommended Solutions



Technical Information

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