

# Plastic Scintillators



Eljen Technology's plastic scintillators are based on a plastic matrix of polyvinyltoluene and fluors necessary to give each plastic scintillator its unique properties. Our plastic scintillators are available in a variety of different geometries, including cast sheets, blocks, rods, cylinders, thin films, and annuli. Custom sizes and geometries are available for most of these products. are cut to customer

All plastic scintillators ensure the best optical properties on all surfaces Custom plastic scintillator detector assemblies are also available. Such assemblies generally include acrylic light-guides, light-tight wrapping, and one or more photomultiplier tube assemblies (includes photomultiplier tube, voltage divider, Mu-shielding and light-tight housing). Please contact us regarding your specific requirements

PLASTIC SCINTILLATOR PRODUCTS			
Material	Description/Application	Commercial Equivalents	
		NE	S-G
EJ-200	Best overall general properties	Pilot F	BC-408
EJ-204	Good general properties. Use with green WLS	NE-104	BC-404
EJ-208	Good general properties. High attenuation length	NE-110	BC-412
EJ-212	Good general properties. Thin films	NE-102A	BC-400
EJ-214	Ultra-thin films (25 $\mu\text{m}$ ). Formerly EJ-299-07	-	-
EJ-228	Very fast timing. High pulse pair resolution. Small sizes (<10cm)	Pilot U	BC-418
EJ-230	Variant of EJ-228. Used for detector dimensions exceeding 10cm	Pilot U2	BC-420
EJ-232	Very fast timing. Use with blue WLS. Small sized (<10cm)	NE-111A	BC-422
EJ-232Q	Variant of EJ-232. Quenched for ultra-fast timing	-	BC-422Q
EJ-240	Long decay time	NE-115	BC-444
EJ-244	Elevated temperature. Analog to EJ-208. General purpose	-	BC-440
EJ-244M	Variant of EJ-244. Crosslinked	-	BC-440M
EJ-248	Elevated temperature. Analog to EJ-200. General purpose	-	BC-448
EJ-248M	Variant of EJ-248. Crosslinked	-	-
EJ-254	Boron loaded	-	BC-454
EJ-256	Lead loaded, X-rays, Dosimetry	NE-142	BC-452
EJ-260	Green-emitting. Solid-state sensors	NE-103	BC-428
EJ-262	Green-emitting. Solid-state sensors	-	-
EJ-290	Scintillator casting resin. General purpose	NE-120	BC-490
EJ-296	Scintillator paint. Used to make thin films	-	BC-498
EJ-299-33A	PSD plastic, Fast neutron-gamma discrimination. Cylinders	-	-
EJ-299-34	PSD plastic. Fast neutron-gamma discrimination. Small bar arrays	-	-