

# PLASTIC SCINTILLATOR CASTING RESIN EJ-290

EJ-290 is a partially-polymerized plastic scintillator formulated for final curing in the user's facilities at a relatively low temperature. It is supplied in a kit form consisting primarily of the scintillator resin and a polymerization initiator. Upon combining the ingredients using the provided instructions, a solid plastic scintillator can be made at a relatively low polymerization temperature. The final scintillation and physical properties are similar to those of the conventional blue emitting plastic scintillator EJ-212.

Please see our website for instructions on how to use EJ-290. Typical shelf life for this product is approximately 6 months when stored under recommended conditions.



PROPERTIES	EJ-290
Light Output (% Anthracene)	58
Scintillation Efficiency (photons/1 MeV e <sup>-</sup> )	9,000
Wavelength of Maximum Emission (nm)	423
Decay Time (ns)	~ 3
H Atoms per cm <sup>3</sup> (×10 <sup>22</sup> )	5.17
C Atoms per cm <sup>3</sup> (×10 <sup>22</sup> )	4.67
Electrons per cm <sup>3</sup> (×10 <sup>23</sup> )	3.33
Density (g/cm <sup>3</sup> )	1.023

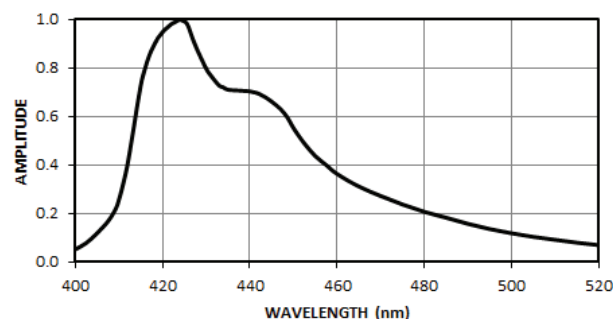
## PACKAGE SIZES

500 mL

1000 mL

Polymer Base	Polyvinyltoluene
Refractive Index	1.58
Softening Point	75°C
Vapor Pressure	Vacuum-compatible
Coefficient of Linear Expansion	7.8 × 10 <sup>-5</sup> below 67°C

EJ-290 EMISSION SPECTRUM



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## ELJEN TECHNOLOGY

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