

MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2025-073
Item to be Scouted	Silicon-Based Polymer
Days to be scouted	28
Response Due By	04/09/2025
Description	Looking for a colorless or translucent 1 part or 2 part (base and activating agent) silicon-based polymer manufacturer
Notify Requester Immediately	No
State item to be used in	Virginia

Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	Past supplier no longer available
Describe the manufacturing processes (elaborate to provide as much detail as possible)	May includes but is not limited to chemical mixing, distillation, hydrolysis, and polymerization.
Provide dimensions / size / tolerances / performance specifications for the item	Colorless/translucent for visualization through Dielectric Constant at 100Hz >2.30 Dielectric Strength >475 V/mil Biocompatible / Biologically Inert Tensile Strength >6 Mpa Pot Life >90 minutes Cure Time at 100C <30 minutes Durometer Strength <40 Ability to mold to micron scale features No gels; too viscous and not enough resolution
List required materials needed to make the product, including materials of product components	silicon-based polymer
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Are there any other standards, requirements, etc.?	No
NAICS 1	325211 Plastics material and resin manufacturing
NAICS 2	
Additional Technical Comments	

Section 4: Business Information

Estimated potential business volume	60kg/year
Estimated target price / unit cost information (if unavailable explain)	\$175/kg
When is it needed by?	December, 2025
Describe packaging requirements	Best available. Delivered undamaged. Specifics discussed in negotiation.
Where will this item be shipped?	Virginia

Additional Comments

Is there other information you would like to include?