

Technical Data Sheet

	SunSpheres™ PGL Polymer	
	INCI: Styrene/Acrylates Copolymer	
Features & Benefits	 Allows reduced amount of UV filters in formulation Excellent for aesthetically pleasing formulations Boosts protection across the UVA/UVB spectrum Potential reduction in irritation caused by actives Useful for wide variety of cosmetic products using either inorganic or organic UV filters Excellent for water-resistant formulations Non-irritating, non-toxic, non-photosensitizing 	
Applications	 SunSpheres[™] SPF Boosters can be used in a wide range of sun care and daily wear SPF products containing UV active ingredients: Organic and inorganic UVA and UVB actives Oil-in-water, water-in-oil and water-in-silicone systems Cold- and hot-processable systems Low viscosity spray systems Cream and lotion formulations Stick formulations, lip balms Makeup (foundation, BB creams, etc.) 	
Typical Propertie Specification Writers: The	ese values are not intended for use in preparing specifications.	

Property	Unit	Result
Typical Use Levels	%	1–5 polymer solids (4-20 as is)
Appearance		Opaque, white to off-white liquid
рН		6.5–7.5
Solids Content	%	24.5–26.5
Brookfield Viscosity(LV, Spindle 1, 60 rpm, 25°C)	cP	0–100
Shelf Life	days	540 from the date of manufacture provided on the Certificate of Analysis (COA)

Description	SunSpheres [™] PGL Polymer is a SPF booster built on a unique hollow sphere technology that enables greater SPF efficiency in sun care and daily wear SPF products. The hollow spheres raise the UV protection over the whole UVA/UVB spectrum, working equally well with organic and inorganic actives.
How to Use	SunSpheres [™] PGL Polymer is easy to formulate with, and widely compatible, with both organic and inorganic UV actives, including in water resistant formulas, and commonly used ingredients in a wide range of sun care products (O/W, W/O, W/Si, low viscosity pumps, creams and lotions, stick formulations).
Handling Precautions	PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.
Usable Life and Storage	Store products in tightly closed original containers, keep from freezing.
Limitations	This product is neither tested nor represented as suitable for medical or pharmaceutical uses.
Health And Environmental Information	To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.
	For further information, please see our website, dow.com or consult your local Dow representative.

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