

# SmartStart Library

For LightTools, LucidShape and LucidShape CAA V5 Based

## Features at a Glance

The SmartStart Library is a curated set of routinely updated optical data for glasses, plastics, and surface finishes.

Glass and plastic data includes:

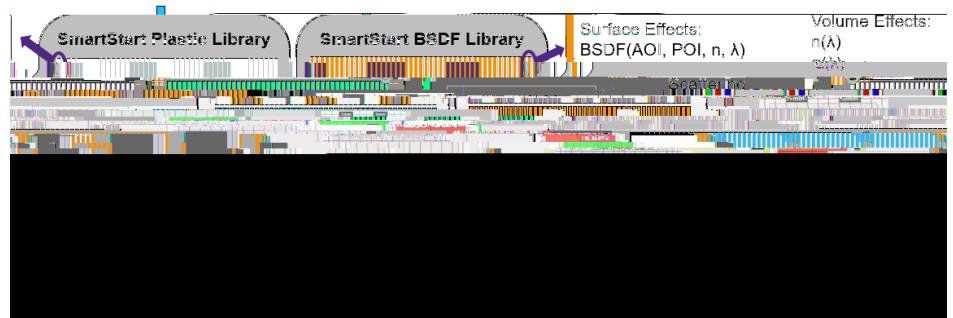
- Dispersion
- Wavelength-dependent absorption
- Volumetric scattering

Surface finish data includes:

- High-accuracy BSDF for commercially available reflectors and diffusers
- Refractive BSDF for mold textures that can be applied to any substrate
- Reflective BSDF for mold textures that are metalized using industry-standard methods

## Data for Realistic Simulations of Lighting Designs

Lighting designers know that the best designs depend on the best input data. The Synopsys SmartStart Library provides designers with light scatter data for faster, more cost-effective product development. Hundreds of optical measurements are stored as data files for use in LightTools, LucidShape and LucidShape CAA V5 Based, provided with licensed modules in each software product. You can be confident that your product simulations will give you a



slices occur every 10 degrees of azimuth

SmartStart Library Contents as of March 2022

Dataset Type	Number of Vendors	Vendor Examples	Number of Datasets	Supported In
Glasses	2	Kopp Glass	24	LucidShape 2020.12, LightTools 2022.03, LucidShape CAA 2020.09
Plastics	6	Covestro, Dow Chemical, Evonik, SABIC	104	LucidShape 2020.12, LightTools 2022.03, LucidShape CAA 2020.09
Diffuse Plastics	6	ALBIS, Covestro, Evonik, SABIC	98	LucidShape 2020.12, LightTools 2022.03, LucidShape CAA 2020.09
Reflectors	16	Acktar, Alanod, LabSphere	159	LucidShape 2020.12, LightTools 2022.03,
Diffusers	18	Bright View, Luminit, KIMOTO	138	LucidShape 2020.12, LightTools 2022.03, LucidShape CAA 2021.06
Refractive Mold Textures	3	Mold-Tech, Tenibac, VDI 3400	99	LucidShape 2020.12, LightTools 2022.03, LucidShape CAA 2020.09
Reflective Mold Textures	4	Mold-Tech, Tenibac, VDI 3400	116	LightTools 2022.03, LucidShape 2020.12, , LucidShape CAA 2021.06