

ACRYLITE® Hi-Gloss acrylic molding compounds

Evonik is setting the standard in non-transparent automotive exterior and interior trim applications.

ACRYLITE® Hi-Gloss acrylic molding compounds provide the most cost-effective durable solution for high quality decorative parts. It offers outstanding properties such as extremely deep color, weather resistance throughout the car's life cycle and robust, high-gloss surface (Class A) from which any scratches can be polished away.



ACRYLITE® Hi-Gloss compounds are used for 1 shot or 2 shot injection-molded decorative applications. Their good chemical resistance and easy over-molding characteristics make them ideal candidates for exterior and interior trim parts.

ACRYLITE® Hi-Gloss compounds

Available in three grades

ACRYLITE® Hi-Gloss FT8	High heat deflection temperature under load. Good flow and melt viscosity.
ACRYLITE® Hi-Gloss FT15	Highest heat deflection temperature under load combined with good flow properties.
ACRYLITE® Hi-Gloss NTA-1	Slightly impact-modified with high heat deflection temperatures under load.

Typical Properties

- excellent weather resistance
- high mechanical strength
- high surface hardness and mar resistance
- heat resistant
- good melt volume rate
- scratches can be polished away
- available in a range of deep opaque colors

Automotive Applications

- exterior pillars
- mirror housings
- interior console trim
- decorative appliques
- interior trim on dashboard, or cluster area

ACRYLITE® Hi-Gloss molding compounds

ACRYLITE® Hi-Gloss grades

Property	ISO Method	ACRYLITE® Hi-Gloss FT8	ACRYLITE® Hi-Gloss FT15	ACRYLITE® Hi-Gloss NTA-1
Optical				
Luminous transmittance D65 %	13468-2	Opaque	Opaque	Opaque
Refractive Index	489	Opaque	Opaque	Opaque
Rheological				
Melt Volume Rate, 230°C & 3.8kg cm ³ / 10min	1133	3	4.5	3
Mechanical				
Tensile Modulus @ 1mm / min MPa	527	3,300	3,500	2,700
Stress @ Break @ 5 mm / min MPa	527	77	50	68 ⁽²⁾
Strain @ Break @ 5 mm / min, %	527	5.5	3.1	10 ⁽²⁾
Charpy Impact Strength, kJ/m ²	179 / 1eU	20	18	33
Physical				
Deflection Temperature Under Load @ 0.45 MPa °C	75	103	107	103
Deflection Temperature Under Load @ 1.8 MPa °C	75	98	105	102
Vicat Softening Point, B / 50°C	306	108	115	110
Glass Transition Temperature °C	IEC 10006	117	121	120
Density g / cm ³	1183	1.19	1.19	1.18
Water Absorption 23°C / 50% RH	62	–	–	–
Water Absorption, Sat / 23°C, %	62	>3	>3	>3
Mold shrinkage, mm / mm	294	–	–	–
Coefficient of Linear Thermal Expansion (0 - 50°C), E-5 / °K	11359	8	–	–
Fire Rating	DIN 4102	B2	B2	B2
Flammability (1.6 mm), Class	IEC 707	UL 94 HB	UL 94 HB	UL 94 HB

(1) Melt Volume Rate, 260°C & 10.0kg cm² / 10min (2) Stress at break and strain at break at 50 mm/min

Processing: ACRYLITE® Hi-Gloss compounds can be processed in injection molding machines and extrusion lines with 3-zone general purpose screws.

ACRYLITE® Hi-Gloss is available in acrylic polymers and sheet. For more information on ACRYLITE® Hi-Gloss polymers visit www.acrylite-polymers.com or call +1 800 631-5384. For ACRYLITE® Hi-Gloss sheet products, visit www.acrylite.net. ACRYLITE® Hi-Gloss sheet can be purchased online at www.acrylite-shop.com.

Packaging: Available in 1500 lb. gaylord boxes; other packaging available on request.

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