

# ACRYLITE® Resist ZK-M

Polymethyl Methacrylate Acrylic  
Evonik Cyro LLC

Message:

ACRYLITE® Resist ZK-M polymer is an amorphous, impact-modified thermoplastic molding and extrusion compound based on polymethyl methacrylate (PMMA).

Typical properties of ACRYLITE® Resist acrylic polymers are:

- high weather resistance
- high light transmission
- improved resistance to stress cracking
- good melt flow rate
- easy to color

The special properties of ACRYLITE® Resist ZK-M polymer are:

- medium impact/break resistance and strength
- low melt flow rate
- high heat resistance

AMECA listed as ZKM (x)

FDA food contact use

Application:

Used for injection molded parts.

General Information	
UL YellowCard	E54671-244588
Additive	Impact Modifier
Features	Amorphous
	Food Contact Acceptable
	Good Colorability
	Good Flow
	Good Strength
	Good Weather Resistance
	High Clarity
	High Heat Resistance
	Impact Modified
	Medium Impact Resistance
Uses	Appliance Components
	Automotive Applications
	Automotive Instrument Panel
	Household Goods
	Housings
	Lenses
	Lighting Applications
Agency Ratings	EC 1907/2006 (REACH)
	FDA Food Contact, Unspecified Rating

Appearance	Clear/Transparent
Forms	Pellets
Processing Method	Extrusion Injection Molding

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm <sup>3</sup>	ASTM D792
Apparent Density	0.71	g/cm <sup>3</sup>	ASTM D1895
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Water Absorption (Equilibrium)	< 0.30	%	ASTM D570

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	68		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2210	MPa	ASTM D638
Tensile Strength	58.6	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.0	%	
Break	30	%	
Flexural Modulus	2210	MPa	ASTM D790
Flexural Strength	89.6	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
0°C, 6.35 mm	27	J/m	
23°C, 6.35 mm	45	J/m	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed, 6.35 mm)	91.1	°C	ASTM D648
Vicat Softening Temperature	98.9	°C	ASTM D1525
CLTE - Flow (0 to 100°C)	7.2E-5	cm/cm/°C	ASTM D696

Optical	Nominal Value	Unit	Test Method
Transmittance (3200 μm)	91.5	%	ASTM D1003
Haze (3200 μm)	1.0	%	ASTM D1003
Yellowness Index (3.20 mm)	0.30	YI	ASTM D1925

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

**Susheng Import & Export Trading Co.,Ltd.**

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

