

## Evonik CYRO Acrylite Plus® H-17 M Acrylic Molding Compound

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, Impact Modified, Molded

### Material Notes:

This material has been replaced by Acrylite Plus® ZK-M - same physical properties with lower haze. Data provided by CYRO IndustriesUses: auto lenses, glazing, toys

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-CYRO-Acrylite-Plus-H-17-M-Acrylic-Molding-Compound.php](http://www.lookpolymers.com/polymer_Evonik-CYRO-Acrylite-Plus-H-17-M-Acrylic-Molding-Compound.php)

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in <sup>3</sup>	ASTM D792
Water Absorption	<= 0.30 %	<= 0.30 %	ASTM D570
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	ASTM D551
Melt Flow	3.0 g/10 min @Load 3.80 kg, Temperature 230 °C	3.0 g/10 min @Load 8.38 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	64	64	ASTM D785
Tensile Strength, Ultimate	52.0 MPa	7540 psi	ASTM D638
Elongation at Break	23 %	23 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	ASTM D638
Flexural Yield Strength	79.0 MPa	11500 psi	ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	ASTM D790
Izod Impact, Notched	0.350 J/cm @Diameter 6.35 mm	0.656 ft-lb/in @Diameter 0.250 in	bar; ASTM D256
	0.210 J/cm @Diameter 6.35 mm, Temperature 0.000 °C	0.393 ft-lb/in @Diameter 0.250 in, Temperature 32.0 °F	bar; ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	72.0 µm/m-°C @Temperature 0.000 - 100 °C	40.0 µin/in-°F @Temperature 32.0 - 212 °F	

Thermal Properties	Metric	English	Comments
Modulus at 1.8 MPa (264 psi)	36.1 °C	18 °F	Annealed, ASTM D648
Vicat Softening Point	109 °C	228 °F	ASTM D1525
Flammability, UL94	HB	HB	

Optical Properties	Metric	English	Comments
Refractive Index	1.49	1.49	ASTM D542
Haze	<= 3.0 %	<= 3.0 %	ASTM D1003
Transmission, Visible	89 %	89 %	ASTM D1003

Processing Properties	Metric	English	Comments
Melt Temperature	232 - 248 °C	450 - 478 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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