ACRYLITE® Resist ZK-X

Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

Message:

ACRYLITE PLUS® ZK-X impact acrylic polymer is an amorphous, impact-modified thermoplastic molding and extrusion compound based on polymethyl methacrylate (PMMA).
Typical properties of ACRYLITE PLUS® impact 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 PLUS ZK-X polymer are:
medium impact/break resistance and strength
low melt flow rate
high heat resistance
Used for injection molded parts and extruded sheet.

General Information		
UL YellowCard	E54671-244590	E54671-244591
Additive	Impact Modifier	
Features	Amorphous	
	Good Colorability	
	Good Flow	
	Good Strength	
	Good Weather Resistance	
	High Clarity	
	High Heat Resistance	
	Impact Modified	
	Medium Impact Resistance	
Uses	Appliance Components	
	Decorative Displays	
	Household Goods	
	Housings	
	Lenses	
	Lighting Applications	
	Writing Instruments	
Agency Ratings	EC 1907/2006 (REACH)	
Appearance	Clear/Transparent	
Forms	Pellets	
Processing Method	Extrusion	
	Injection Molding	

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm³	ASTM D792
Apparent Density	0.71	g/cm³	ASTM D1895
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	1.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.70	%	ASTM D955
Water Absorption (Equilibrium)	< 0.30	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	70		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2550	MPa	ASTM D638
Tensile Strength	64.1	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.0	%	
Break	25	%	
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	103	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
0°C, 6.35 mm	32	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)	93.3	°C	ASTM D648
Vicat Softening Temperature	110	°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

Recommended distributors for this material

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