ACRYLITE® Resist ZK6SR

Polymethyl Methacrylate Acrylic

Evonik Cyro LLC

Message:

ACRYLITE® Resist ZK6SR 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 ZK6SR polymer are:
high impact/break resistance and strength
high melt strength for extrusion
low melt flow rate
medium heat resistance
AMECA listed as ZK6 (x)
Application:
Used for extruded sheet, co-extruded sheet and extruded profiles.

General Information	
Additive	Impact Modifier
Features	Amorphous Good Colorability Good Melt Strength Good Weather Resistance High Clarity High Impact Resistance High Strength Impact Modified Low Flow Medium Heat Resistance
Uses	Appliance Components Capstock Household Goods Housings Lenses Lighting Applications Writing Instruments
Agency Ratings	EC 1907/2006 (REACH)
Appearance	Clear/Transparent
Forms	Pellets

Processing Method	Coextrusion Extrusion Injection Molding Profile Extrusion Sheet Extrusion

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)	1.3	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)	40		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1590	MPa	ASTM D638
Tensile Strength	41.4	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.0	%	
Break	60	%	
Flexural Modulus	1380	MPa	ASTM D790
Flexural Strength	55.2	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
0°C, 6.35 mm	43	J/m	
23°C, 3.18 mm	59	J/m	
23°C, 6.35 mm	59	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Annealed, 6.35 mm)	82.8	°C	ASTM D648
Vicat Softening Temperature	91.1	°C	ASTM D1525
CLTE - Flow (0 to 100°C)	9.0E-5	cm/cm/°C	ASTM D696
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance (3200 µm)	> 90.0	%	ASTM D1003
Haze (3200 µm)	< 2.0	%	ASTM D1003
Yellowness Index (3.20 mm)	0.20	YI	ASTM D1925

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