

Plexiglas® Resist zk40

Polymethyl Methacrylate Acrylic
Evonik Industries AG

Message:

Product Profile:
PLEXIGLAS® Resist zk40 is an amorphous, impact-modified thermoplastic molding compound (PMMA-I).
Typical properties of impact-modified PLEXIGLAS® molding compounds are
excellent transmission and clarity
brilliant appearance
the pleasant feel and sound of the moldings.
PLEXIGLAS® Resist zk40 is characterized by the following special properties:
very good break resistance and impact strength
improved resistance to stress cracking
AMECA listing.
Application:
Used for injection molding. Profile extrusion or coextrusion are also possible.
Examples:
lighting fixtures, writing and drawing utensils, domestic appliances and sanitaryware

General Information	
Additive	Impact Modifier
Features	High Clarity
	High ESCR (Stress Crack Resist.)
	High Impact Resistance
	Pleasing Surface Appearance
Uses	Appliances
	Flexible Grips
	Profiles
	Sanitary Products
	Writing Instruments
Forms	Pellets
Processing Method	Coextrusion
	Extrusion
	Injection Molding
Multi-Point Data	Creep Modulus vs. Time (ISO 11403-1)
	Isochronous Stress vs. Strain (ISO 11403-1)
	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)
	Shear Modulus vs. Temperature (ISO 11403-1)
	Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/3.8 kg)	0.700	cm ³ /10min	ISO 1133
Water Absorption (Equilibrium, 23°C, 50% RH)	0.38	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1600	MPa	ISO 527-2/1
Tensile Stress (Yield)	42.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.5	%	ISO 527-2/50
Nominal Tensile Strain at Break	30	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	80	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	92.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	85.0	°C	ISO 75-2/A
Glass Transition Temperature	115	°C	ISO 11357-2
Vicat Softening Temperature	94.0	°C	ISO 306/B50
CLTE - Flow (0 to 50°C)	1.2E-4	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (1.60 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.490		ISO 489
Transmittance ¹	90.0	%	ISO 13468-2
Injection	Nominal Value	Unit	
Drying Temperature	< 84.0	°C	
Drying Time	2.0 to 3.0	hr	
Processing (Melt) Temp	230 to 240	°C	
Mold Temperature	50.0 to 70.0	°C	
NOTE			
1.	D65		

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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



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