

ACRYLITE® Resist ZK5BR

PMMA

Evonik CYRO LLC

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	3.4	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	3.8	kg	-
Mold Shrinkage, MD	0.0055	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	2500	MPa	ASTM D 638
Tensile Strength	62	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	30	%	ASTM D 638
Flexural Modulus	2300	MPa	ASTM D 790
Flexural Strength	88.7	MPa	ASTM D 790
Rockwell Hardness	M 70	-	ASTM D 785
Izod Impact notched, 1/4 in	41.6	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	26.3	J/m	ASTM D 256
Temperature	0	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Coefficient of Thermal Expansion, MD	72	E-6/K	ASTM D 696
Vicat Temperature	103	°C	ASTM D 1525

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	2	%	ASTM D 1003
Light Transmittance	90	%	ASTM D 1003
Index of Refraction	1.49	-	ASTM D 542

Other properties	Value	Unit	Test Standard
Water Absorption, Equilibrium	0.3	%	ASTM D 570
Density	1180	kg/m ³	ASTM D 792
Bulk Density	710	kg/m ³	-

Characteristics**Processing**

Injection Molding, Other Extrusion

Special Characteristics

High impact or impact modified, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Features

Amorphous, Light Guiding

Chemical Resistance

Environmental Stress Crack Resistance

Regional Availability

North America