

ACRYLITE® Satinice ZD23

PMMA

Evonik CYRO LLC

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	3.1	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	3.8	kg	-
Mold Shrinkage, MD	0.0045	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	1700	MPa	ASTM D 638
Tensile Strength	44.1	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	20	%	ASTM D 638
Flexural Modulus	1800	MPa	ASTM D 790
Flexural Strength	69	MPa	ASTM D 790
Rockwell Hardness	M 44	-	ASTM D 785
Izod Impact notched, 1/4 in	52.5	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	108	°C	ASTM D 1525

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	96	%	ASTM D 1003
Light Transmittance	85	%	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	1150	kg/m ³	ASTM D 792
Bulk Density	710	kg/m ³	-

Characteristics**Processing**

Injection Molding

Special Characteristics

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

Features

Light Diffusing, Light Guiding

Certifications

Food contact, Food approval 10/2011, Food approval FDA 21 CFR

Applications

Automotive

Regional Availability

North America