

ACRYLITE® 8N

PMMA

Evonik CYRO LLC

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	3.3	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	3200	MPa	ASTM D 638
Tensile Strength	77.9	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	5	%	ASTM D 638
Flexural Modulus	3500	MPa	ASTM D 790
Flexural Strength	112	MPa	ASTM D 790
Rockwell Hardness	M 95	-	ASTM D 785
Izod Impact notched, 1/4 in	19	J/m	ASTM D 256

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	1	%	ASTM D 1003
Light Transmittance	92	%	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	1190	kg/m ³	ASTM D 792
Bulk Density	660	kg/m ³	-

Characteristics**Processing**

Injection Molding, Profile Extrusion, Other Extrusion

Additives

Lubricants

Special Characteristics

U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Features

Amorphous, Light Guiding, Melt Strength

Applications

Automotive

Regional Availability

North America