

ACRYLITE® LED 8N LD12

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			
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	5	%	ASTM D 1003
Light Transmittance	90	%	ASTM D 1003

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, Other Extrusion

Features

Light Guiding

Delivery form

Pellets

Regional Availability

North America

Special Characteristics

U.V. stabilized or stable to weather, Transparent