

ACRYLITE® LED LD12

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	0.0055	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	3200	MPa	ASTM D 638
Tensile Strength	80	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	5	%	ASTM D 638
Flexural Modulus	2900	MPa	ASTM D 790
Flexural Strength	129	MPa	ASTM D 790
Rockwell Hardness	M 101	-	ASTM D 785
Izod Impact notched, 1/4 in	17.3	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	8	%	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

Characteristics**Special Characteristics**

Transparent

Applications

Automotive

Features

Light Guiding

Regional Availability

North America