

Diakon CMH454L

PMMA

Lucite International

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt flow index, MFI	1	g/10min	ISO 1133
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Strength	85	MPa	ISO 527
Strain at break	5	%	ISO 527
Flexural modulus, 23°C	3400	MPa	ISO 178
Charpy impact strength, +23°C	23	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	2.2	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	2.1	kJ/m ²	ISO 180/1A
Rockwell hardness	M 99	-	ISO 2039-2
Ball indentation hardness	190	MPa	ISO 2039-1

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	102	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	106	°C	ISO 75-1/-2
Vicat softening temperature, A	117	°C	ISO 306
Vicat softening temperature, B	109	°C	ISO 306
Burning behav. at thickness h	HB	class	IEC 60695-11-10
ASTM Data			
Coefficient of Thermal Expansion, MD	71	E-6/K	ASTM D 696

Optical properties	Value	Unit	Test Standard
ASTM Data			
Haze	0.4	%	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	0.3	%	Sim. to ISO 62
Density	1180	kg/m ³	ISO 1183
Density	1180	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding, Other Extrusion

Special Characteristics

Transparent

Features

Copolymer

Regional Availability

North America, Europe, Asia Pacific, South and Central America, Near East/Africa