

MC501CD R6 Material Data Sheet – Supplied by *PROFESSIONAL PLASTICS*

Properties	Test Methods	Units	Values
Density	ASTM D-792	–	1.23
Tensile Strength at 23°C	ASTM D-638	MPa	74
		{kgf/cm ² }	{760}
Tensile Elongation at 23°C (at break)	ASTM D-638	%	7
Tensile Modulus at 23°C	ASTM D-638	MPa	–
		{10 ³ kgf/cm ² }	–
Compressive Strength at 23°C (5% Deformation)	ASTM D-695	MPa	93
		{kgf/cm ² }	{950}
Compressive Modulus at 23°C	ASTM D-695	MPa	4,020
		{10 ³ kgf/cm ² }	{41}
Flexural Strength at 23°C	ASTM D-790	MPa	117
		{kgf/cm ² }	{1,200}
Flexural Modulus at 23°C	ASTM D-790	MPa	4,020
		{10 ³ kgf/cm ² }	{41}
Izod Impact (Notched)	ASTM D-256	J/m	35
		{kgf-cm/2.54cm}	{9}
Rockwell Hardness at 23°C	ASTM D-785	R scale	117
Heat Deflection Temperature	ASTM D-648	°C	200
1.820MPa {18.6kgf/cm ² }			
0.445MPa {4.6kgf/cm ² }	ASTM D-648	°C	215
Coefficient of Linear Thermal Expansion	ASTM D-696	×10 ⁻⁵ /°C	7.5
Continuous Service Temperature	–	°C	120
Water Absorption Immersion at 23°C	ASTM D-570	%	0.5
(24h in water)			
(Saturation)			
Volume Resistivity at 23°C	ASTM D-257	Ω-m	10 ⁴ - 10 ⁶
		{Ω-cm}	{10 ⁶ - 10 ⁸ }
Dielectric Strength	ASTM D-149	kV/mm	–
Flammability	UL94	–	(HB)

*The data in the table shows the representative data, though they are not the guaranteed ones.

*Combustion property is presented according to UL standard evaluation test and data presented by raw material producers. No products need caution as a material.

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