



PRODUCT INFORMATION

Weather Resistance Grade

KOCETAL[®] WR501

Kocetal WR501 is U.V. stabilized grade suitable for out door applications with a good weather resistance

Property	Test Method	Units	Value
Physical			
Melt Index	ASTM D1238	g/10min	14.0~17.0
Specific Gravity	ASTM D792	-	1.41
Water Absorption 23 , Equilibrium 60%RH	ASTM D570	%	0.22
Thermal			
Melting Point	ASTM D1525		166
Heat Deflection Temperature	ASTM D648		
HDT/A 4.6kg/cm ² (0.45MPa)			160
HDT/A 18.6kg/cm ² (1.81MPa)			110
Vicat Softening Temperature	ASTM D1525		162
Coeff. Of Linear Thermal Expansion	ASTM D696	x 10 ⁻⁵ cm/cm·	9~11
Flammability	UL 94		HB
Mechanical			
Tensile Strength 23	ASTM D638	kg/cm ² (MPa)	590 (58)
Tensile Elongation 23	ASTM D638	%	40
Flexural Strength 23	ASTM D790	kg/cm ² (MPa)	800 (78)
Flexural Modulus 23	ASTM D790	kg/cm ² (MPa)	23000 (2256)
Notched Izod Impact Strength 23	ASTM D256	kg·cm/cm (J/m)	5 (49)
Rockwell Hardness M scale	ASTM D785	-	80
Electrical			
Surface Resistivity	ASTM D257	x 10 ¹⁶	1
Volume Resistivity	ASTM D257	x 10 ¹⁴ ·m	1
Dielectric Strength	ASTM D149	kV/mm	19
Dielectric Constant	ASTM D150	-	3.7
Dielectric Dissiparation FactorConstan 10 ⁶ Hz	ASTM D150	-	0.006
Arc Resistance 10 ⁶ Hz	ASTM D495	sec	>200



[KOLON Industries Inc.](http://www.kolon.com)

