

# PRODUCT INFORMATION

Toughened Grade

## KOCETAL<sup>®</sup> UR302

Kocetal UR302 is impact strength modified grade suitable for fastener and switch.

Property	Test Method	Units	Value
<b>Physical</b>			
Melt Index	ASTM D1238	g/10min	10~13
Specific Gravity	ASTM D792	-	1.39
Shrinkage	ASTM D955	%	1.8
Water Absorption 23 °C, Equilibrium 60%RH	ASTM D570	%	-
<b>Thermal</b>			
Melting Point	ASTM D1525	°C	166
Heat Deflection Temperature	ASTM D648		
HDT/A 4.6kg/cm <sup>2</sup> (0.45MPa)		°C	-
HDT/A 18.6kg/cm <sup>2</sup> (1.81MPa)		°C	-
Vicat Softening Temperature	ASTM D1525	°C	-
Coeff. Of Linear Thermal Expansion	ASTM D696	x 10 <sup>-5</sup> cm/cm·°C	-
Flammability	UL 94		HB
<b>Mechanical</b>			
Tensile Strength 23 °C	ASTM D638	kg/cm <sup>2</sup> (MPa)	450 (44)
Tensile Elongation 23 °C	ASTM D638	%	50
Flexural Strength 23 °C	ASTM D790	kg/cm <sup>2</sup> (MPa)	650 (64)
Flexural Modulus 23 °C	ASTM D790	kg/cm <sup>2</sup> (MPa)	20000 (1960)
Notched Izod Impact Strength 23 °C	ASTM D256	kg·cm/cm (J/m)	5 (49)
Rockwell Hardness M scale	ASTM D785	-	75
<b>Electrical</b>			
Surface Resistivity	ASTM D257	x 10 <sup>16</sup> Ω	1
Volume Resistivity	ASTM D257	x 10 <sup>14</sup> Ω·m	1
Dielectric Strength	ASTM D149	kV/mm	-
Dielectric Constant	ASTM D150	-	-
Dielectric Dissipation FactorConstant 10 <sup>6</sup> Hz	ASTM D150	-	-
Arc Resistance 10 <sup>6</sup> Hz	ASTM D495	sec	-

The information provided in this data sheet is based on our present state of knowledge and is estimated by KTP. This information should not be used as guaranteeing specification limits. KTP make no warranty and liability in connection with any use of this information.

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