

# KOCETAL® K500HS

Acetal (POM) Copolymer

Kolon Plastics, Inc.

Message:

KOCETAL® K500HS is an Acetal (POM) Copolymer product. It is available in Asia Pacific, Europe, Latin America, or North America. Typical application: Engineering/Industrial Parts.  
Characteristics include:  
Flame Rated  
High Strength

| General Information                          |                   |                |             |
|----------------------------------------------|-------------------|----------------|-------------|
| UL YellowCard                                | E190675-101805989 | E190675-238634 |             |
| Features                                     | Good Flow         |                |             |
|                                              | High Strength     |                |             |
| Uses                                         | Thin-walled Parts |                |             |
| Physical                                     | Nominal Value     | Unit           | Test Method |
| Specific Gravity                             | 1.41              | g/cm³          | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)    | 14                | g/10 min       | ASTM D1238  |
| Molding Shrinkage - Flow                     | 2.0               | %              | ASTM D955   |
| Water Absorption (Equilibrium, 23°C, 60% RH) | 0.22              | %              | ASTM D570   |
| Hardness                                     | Nominal Value     | Unit           | Test Method |
| Rockwell Hardness (M-Scale)                  | 82                |                | ASTM D785   |
| Mechanical                                   | Nominal Value     | Unit           | Test Method |
| Tensile Strength (23°C)                      | 66.0              | MPa            | ASTM D638   |
| Tensile Elongation (Break, 23°C)             | 55                | %              | ASTM D638   |
| Flexural Modulus (23°C)                      | 2900              | MPa            | ASTM D790   |
| Flexural Strength (23°C)                     | 98.0              | MPa            | ASTM D790   |
| Impact                                       | Nominal Value     | Unit           | Test Method |
| Notched Izod Impact (23°C)                   | 89                | J/m            | ASTM D256   |
| Thermal                                      | Nominal Value     | Unit           | Test Method |
| Deflection Temperature Under Load            |                   |                | ASTM D648A  |
| 0.45 MPa, Unannealed                         | 158               | °C             |             |
| 1.8 MPa, Unannealed                          | 110               | °C             |             |
| Vicat Softening Temperature                  | 162               | °C             | ASTM D1525  |
| Melting Temperature                          | 173               | °C             | ASTM D1525  |
| CLTE - Flow                                  | 1.3E-5            | cm/cm/°C       | ASTM D696   |
| Electrical                                   | Nominal Value     | Unit           | Test Method |
| Surface Resistivity                          | 1.0E+16           | ohms           | ASTM D257   |
| Volume Resistivity                           | 1.0E+14           | ohms·cm        | ASTM D257   |

|                            |               |       |             |
|----------------------------|---------------|-------|-------------|
| Dielectric Strength        | 19            | kV/mm | ASTM D149   |
| Dielectric Constant        | 3.70          |       | ASTM D150   |
| Dissipation Factor (1 MHz) | 6.0E-3        |       | ASTM D150   |
| Flammability               | Nominal Value | Unit  | Test Method |
| Flame Rating               | HB            |       | UL 94       |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

