

Polyram RamTal PM1003 Acetal, General Purpose

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

Material Notes:

General purpose polyacetal copolymer for injection molding applications. Information provided by Polyram Ram On Ind.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polyram-RamTal-PM1003-Acetal-General-Purpose.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|-----------|
| Density | 1.41 g/cc | 0.0509 lb/in ³ | DIN 53479 |
| Water Absorption | 0.22 % | 0.22 % | DIN 53495 |
| Linear Mold Shrinkage | 0.018 - 0.022 cm/cm | 0.018 - 0.022 in/in | |
| Melt Flow | 3.5 g/10 min @Load 2.16 kg, Temperature 190 °C | 3.5 g/10 min @Load 4.76 lb, Temperature 374 °F | ISO 1133 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|------------------------------------|---------------------------------------|-----------|
| Hardness, Rockwell R | 82 | 82 | ASTM-D785 |
| Tensile Strength, Yield | 65.0 MPa | 9430 psi | ASTM-D638 |
| Elongation at Break | 35 % | 35 % | ASTM-D638 |
| Flexural Strength | 85.0 MPa | 12300 psi | ASTM-D790 |
| Flexural Modulus | 2.70 GPa | 392 ksi | ASTM-D790 |
| Izod Impact, Notched | 0.700 J/cm @Temperature 23.0 °C | 1.31 ft-lb/in @Temperature 73.4 °F | ASTM-D256 |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------|
| Melting Point | 165 °C | 329 °F | |
| Deflection Temperature at 0.46 MPa (66 psi) | 160 °C | 320 °F | DIN 53461 |
| Deflection Temperature at 1.8 MPa (264 psi) | 110 °C | 230 °F | DIN 53461 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-----------------|-----------------|-----------|
| Volume Resistivity | 1.00e+16 ohm-cm | 1.00e+16 ohm-cm | DIN 53482 |
| Surface Resistance | 1.00e+14 ohm | 1.00e+14 ohm | DIN 53482 |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------|--------------------|------------|
| Dielectric Constant | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz | VDE 0303/4 |
| Dielectric Strength | 24.0 kV/mm | 610 kV/in | VDE 0303/4 |

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