

PRODUCT INFOSHEET: Duro-Glide® Enhanced UHMW #354 Red HT

Duro-Glide® Enhanced #354 Red Heat is an advanced UHMW polymer with superior molecular weight and wear resistant additives with elevated temperature stabilizers.

PROPERTIES

Excellent Sliding Properties | Low Coefficient of Friction | Good Notched Impact Strength
Eliminate sticking or Caking of Bulk Materials | Higher Temperature Resistant | Weldable

INDUSTRY / APPLICATIONS

Bulk Goods Handling | Conveyor Industry (Earthmoving Equipment) | Truck Liners, Hoppers, Chutes
Rail Road Car Liners | Gypsum Industry | Cement Industry

COLOR

#354 Red

CHARACTERISTICS AND STANDARD VALUES

| Physical Properties | Method | SI Unit | SI Value |
|--|-----------------------------------|---|--|
| Density | ASTM D792 ISO 1183-1 | g/cc g/cm ³ | > 0.93 > 0.93 |
| Abrasion (Sand-Slurry-Test rel. to GUR 4120 = 100%) | ISO 15527 | % (Average) | 80 (± 5%) |
| Notched Impact Strength | ISO 11542-2 | mJ/mm ² kJ/m ² | > 100 |
| Tensile Strength, Yield | ASTM D638 ISO 527-2 | Psi MPa | > 2500 > 17 |
| Break Elongation | ASTM D638 ISO 527-2 | % % | > 350 > 50 |
| Creep properties under varying compressive stress: Creep < 10% | Max. | Psi MPa | 1150 8 |
| Coefficient of Friction, ASTM 1894 Metal= Rz 2,5 μ, Pm= 2 N/mm ² , V= 150 mm/min | Static Dynamic | μ μ | 0.15 0.09 |
| Shore-hardness, 3-s\l-value 6mm plate | ASTM D2240 ISO 868 / DIN 53505 | D D | 61 61 |
| Water Absorption | -- | % | < 0.1 (Nil) |
| Flammability | UL 94 | -- | HB |
| Thermal Properties | | | |
| Permanent Operation Temp., Max. | -- | °F | 275 |
| Short-Term Operation Temp., Max. | -- | °F | 375 - 400 |
| Coefficient of Linear Expansion | ASTM D696 DIN 53752 | 73 – 176 °F 23 – 80 °C | ≈ 1.1x10 ⁻⁴ /°F ≈ 2.0x10 ⁻⁴ /°C |
| Electrical Properties | | | |
| Surface Resistivity | ASTM D257 IEC 93 | Ohm Ω | > 10 ¹⁴ > 10 ¹⁴ |
| Volume Resistivity | ASTM D257 IEC 93 | Ohm cm Ω * cm | > 10 ¹⁴ > 10 ¹⁴ |

Any suggestions or recommendations for the use of our products are based on tests believed to be reliable and on the independent judgment of our technicians. However, it is ultimately up to the Customer/End User to determine whether the product(s) provided by Duro-Glide® are suitable for the intended purpose or application. Duro-Glide® Polymer Sheets makes no warranty of fitness for a particular purpose, nor does it guarantee the results to be obtained. Nothing in this literature is intended as a recommendation to use our products so as to infringe on any patent.