

3M 32664 Light Gray Heavy Duty Performance Coating - Part B

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

Material Notes:

3M™ HD (Heavy Duty) Performance Coating is 100% solids elastomeric lining especially developed for high abrasion and tear resistance with thick build up characteristics. It has good durability and adhesion to metal, fiberglass, aluminum, wood (plywood, OSB, etc.), concrete and masonry. It is a two component 1:1 by volume system with adhesion enhancement chemical complexes. The protective coating can be applied up to 500mil thick and offers an ultra-fast cure that speeds production in an OEM setting. This aromatic formulation displays excellent chemical and environmental resistance while reducing the moisture problem that causes bubbling. It also offers high elongation and flexibility that produces high impact resistance. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-32664-Light-Gray-Heavy-Duty-Performance-Coating-Part-B.php

| Physical Properties | Metric | English | Comments |
|----------------------|------------------|------------------------------------|--------------------------------|
| Density | 1.01 - 1.08 g/cc | 0.0365 - 0.0390 lb/in ³ | |
| Solids Content | 100 % | 100 % | |
| Water Absorption | <= 1.78 % | <= 1.78 % | ASTM D570 |
| Brookfield Viscosity | 150 - 1250 cP | 150 - 1250 cP | RVT Model, Spindle #3 @ 20 rpm |

| Mechanical Properties | Metric | English | Comments |
|--------------------------------|------------------|-------------------|----------------------|
| Hardness, Shore D | 54 - 60 | 54 - 60 | ASTM D2240 |
| Tensile Strength at Break | 12.4 - 15.2 MPa | 1800 - 2200 psi | ASTM 638-01 |
| Elongation at Break | 93 % | 93 % | ASTM 638-01 |
| Tear Strength | 49.9 - 58.6 kN/m | 285 - 335 pli | ASTM D624 |
| Taber Abrasion, mg/1000 Cycles | 35 - 40 | 35 - 40 | ASTM D40695 |
| Tangent Modulus | 110 - 124 MPa | 16000 - 18000 psi | Tangent; ASTM 638-01 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------|----------|----------|
| Maximum Service Temperature, Air | 93.0 °C | 199 °F | |
| Minimum Service Temperature, Air | -29.0 °C | -20.2 °F | |
| Flash Point | 93.0 °C | 199 °F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|----------------|------------------|-----------|
| Cure Time | 60.0 - 120 min | 1.00 - 2.00 hour | light use |

| Processing Properties | Metric | English | Comments |
|-----------------------|--|--|----------|
| Shelf Life | 12.0 Month @Temperature 21.0 - 32.0 °C | 12.0 Month @Temperature 69.8 - 89.6 °F | |

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