

Lord Adhesives Aeroglaze® Z302 Absorptive Polyurethane

Category : Polymer , Thermoset , Polyurethane, TS

Material Notes:

Aeroglaze® Z302 absorptive polyurethane is primarily for application to substrates used in space operations. These operations include those where coatings must exhibit low outgassing characteristics while providing high thermal absorptivity properties. In addition, the mechanical properties required for rigorous durations in space are an integral part of the Aeroglaze Z302 absorptive polyurethane make-up. Aeroglaze Z302 absorptive polyurethane shows excellent performance on rigid or flexible substrates. All information provided by Lord.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lord-Adhesives-Aeroglaze-Z302-Absorptive-Polyurethane.php

| Physical Properties | Metric | English | Comments |
|--|-----------------------|---------------------------|--------------------|
| Density | 0.930 g/cc | 0.0336 lb/in ³ | ASTM D1475-85 |
| Solids Content | 28 % | 28 % | by volume |
| | 34 % | 34 % | by weight |
| Volatile Organic Compounds (VOC) Content | 618 g/l | 618 g/l | ASTM D3960-89 |
| Brookfield Viscosity | 75 cP | 75 cP | ASTM D2196-86; LVT |
| | @Temperature 25.0 Å°C | @Temperature 77.0 Å°F | |
| Outgassing - Total Mass Loss | 1.39 % | 1.39 % | ASTM E595-77 |

| Thermal Properties | Metric | English | Comments |
|--------------------|----------|----------|--------------------------------------|
| Flash Point | 16.1 Å°C | 61.0 Å°F | Setaflash, Closed Cup; ASTM D3278-82 |

| Optical Properties | Metric | English | Comments |
|--------------------|-----------------------|-----------------------|------------------------|
| Gloss | 93 % | 93 % | 60Å° |
| Emissivity (0-1) | 0.88 - 0.92 | 0.88 - 0.92 | 5-25 Åµm; ASTM E408-71 |
| | @Temperature 25.0 Å°C | @Temperature 77.0 Å°F | |

| Processing Properties | Metric | English | Comments |
|-----------------------|-----------------------|-----------------------|----------------------------------|
| Cure Time | 120 - 180 min | 2.00 - 3.00 hour | Tack Free; 50% relative humidity |
| | @Temperature 25.0 Å°C | @Temperature 77.0 Å°F | |
| | 720 min | 12.0 hour | Permit Handling |

| Processing Properties | @Temperature 25.0 Metric °C | @Temperature 77.0 °F English | Comments |
|-----------------------|-----------------------------------|---------------------------------|---------------------|
| | 2160 - 2880 min | 36.0 - 48.0 hour | Permit Normal Usage |
| | @Temperature 25.0 °C | @Temperature 77.0 °F | |
| Shelf Life | 12.0 Month | 12.0 Month | |

| Descriptive Properties | Value | Comments |
|--|-------------|--------------------------------|
| Appearance | Gloss Black | |
| Coating Film Dry Weight (gm/ft ² /mil) | 2.68 | |
| Solar Absorption | >0.95 | Gier-Dunkle Integrating Sphere |
| Theoretical Coverage (ft ² /gallon/mil) | 448 | |

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