



- Flexible Polyvinyl Chloride

Friday, June 30, 2017

| General Information | | | |
|---------------------|---------------------------|--|--|
| General | | | |
| Material Status | Commercial: Active | | |
| Availability | Asia Pacific | | |
| Uses | Appliance Wire Insulation | | |
| RoHS Compliance | RoHS Compliant | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |

| ASTM & ISO Properties ¹ | | | | |
|--|---------------|--------------------|--------------|--|
| Physical | Nominal Value | Unit | Test Method | |
| Specific Gravity ² | 1.49 | | ASTM D792 | |
| Mechanical | Nominal Value | Unit | Test Method | |
| Tensile Strength | 2470 | psi | IEC 811-1-1 | |
| Tensile Elongation (Break) | 250 | % | IEC 811-1-1 | |
| Hardness | Nominal Value | Unit | Test Method | |
| Durometer Hardness (Shore A) | 90 | | ASTM D2240 | |
| Aging | Nominal Value | Unit | Test Method | |
| Mechanical Properties After Aging in Air Oven, 168 hr ³ | | | IEC 811-1-2 | |
| Change in Tensile Elongation | 12 | % | | |
| Change in Tensile Strength | 10 | % | | |
| Electrical | Nominal Value | Unit | Test Method | |
| Volume Resistivity (68°F) | 2.0E+14 | ohms∙cm | BS 2782 230A | |
| Additional Information | Nominal Value | Unit | Test Method | |
| Loss of Mass - Oven Ageing Condition @ 80 ± 2°C for 7 days | 1.20 | mg/cm ² | IEC 811-3-2 | |
| | | | | |

Typical temperature profile for SINVICOMP compound is from 160°C to 180°C. The optimum temperatures depend on the type of machine as well as screw design being used to process SINVICOMP.

Feeding zone: 160°C Mixing zone: 160°C~170°C Metering zone: 170°C~180°C Nozzle/Die Zone: 180°C

Notes

¹ Typical properties: these are not to be construed as specifications.

² @ 23°C

³ @ 80 ± 2°C

Teknor Apex Company Corporate Headquarters

Tat Bank Road Oldbury, West Midlands B69 4NH England

Phone: (44) 121-665-2100

etpsales@teknorapex.co.uk

Fax: (44) 121-544-5530

Teknor Apex U.K. Ltd.

In U.S. for Vinyls, TPEs, Colorants, Engineered Thermoplastics (Chem Polymer) 505 Central Avenue Pawtucket, Rhode Island 02861 U.S.

Phone: 401-725-8000 Fax: 401-725-8095 Toll Free (U.S. only) 800-556-3864

info@teknorapex.com

Revision Date: 10/9/2014

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