

Zotefoams Plastazote® LD32CN Conductive Low Density Polyethylene Foam

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE

Material Notes:

Plastazote® is a closed cell, cross-linked polyethylene foam manufactured using nitrogen expansion technology to produce foams with exceptional cell size uniformity, low odor / high purity and outstanding physical attributes. Compliant with EC food contact and US FDA regulations. Information provided by Zotefoams

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zotefoams-Plastazote-LD32CN-Conductive-Low-Density-Polyethylene-Foam.php

| Physical Properties | Metric | English | Comments |
|---------------------|----------------------|---------------------------------------|-------------------------------------|
| Density | 0.0270 - 0.0370 g/cc | 0.000975 - 0.00134 lb/in ³ | sheet density |
| | 0.0320 g/cc | 0.00116 lb/in ³ | Nominal skin/skin; BS ISO 7214 1998 |
| Cell Length | 0.600 - 1.30 mm | 0.0236 - 0.0512 in | |
| | 1.00 mm | 0.0394 in | Typical Diameter |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--------------------------------|--------------------------------|---|
| Hardness, Shore OO | 55 | 55 | 10 mm cell/cell thickness; ISO 868 1985 |
| Tensile Strength | 0.340 MPa | 49.3 psi | ISO 7214 1998 |
| Elongation at Break | 50 % | 50 % | |
| Compressive Yield Strength | 0.0680 MPa | 9.86 psi | BS ISO 7214 1998 |
| | @Strain 10.0 % | @Strain 10.0 % | |
| | 0.0840 MPa | 12.2 psi | |
| | @Strain 25.0 % | @Strain 25.0 % | BS ISO 7214 1998 |
| | 0.117 MPa | 17.0 psi | BS ISO 7214 1998 |
| @Strain 40.0 % | @Strain 40.0 % | | |
| | 0.152 MPa | 22.0 psi | BS ISO 7214 1998 |
| | @Strain 50.0 % | @Strain 50.0 % | |
| Tear Strength | 0.445 kN/m | 2.54 pli | BS EN ISO 8067 1995 |
| Compression Set | 4.0 % | 4.0 % | 24 hr recovery; BS ISO 7214 1998 |
| | @Time 79200 sec, Strain 25.0 % | @Time 22.0 hour, Strain 25.0 % | |
| | 9.5 % | 9.5 % | |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| | @Time 79200 sec, Strain 25.0 % | @Time 22.0 hour, Strain 25.0 % | 0.5 hr recovery; BS ISO 7214 1998 |
| | 14 % | 14 % | |
| | @Time 79200 sec, Strain 50.0 % | @Time 22.0 hour, Strain 50.0 % | 24 hr recovery; BS ISO 7214 1998 |
| | 21 % | 21 % | |
| | @Time 79200 sec, Strain 50.0 % | @Time 22.0 hour, Strain 50.0 % | 0.5 hr recovery; BS ISO 7214 1998 |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|--------------|-------------------------------------|----------------------------------|
| Thermal Conductivity | 0.0377 W/m-K | 0.262 BTU-in/hr-ft ² -°F | mean temp of 10°C; ISO 8302 1991 |
| Maximum Service Temperature, Air | 95.0 °C | 203 °F | |
| Minimum Service Temperature, Air | -70.0 °C | -94.0 °F | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|-------------|-------------|--------------|
| Volume Resistivity | 5000 ohm-cm | 5000 ohm-cm | ASTM D991-89 |

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