

Zotefoams Plastazote® LD45 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-LD45-Low-Density-Polyethylene-Foam.php

| Physical Properties | Metric | English | Comments |
|---------------------|----------------------|--------------------------------------|-------------------------------------|
| Density | 0.0370 - 0.0470 g/cc | 0.00134 - 0.00170 lb/in ³ | sheet density |
| | 0.0450 g/cc | 0.00163 lb/in ³ | Nominal skin/skin; BS ISO 7214 1998 |
| Cell Length | 0.400 mm | 0.0157 in | Typical Diameter |
| | 0.250 - 0.600 mm | 0.00984 - 0.0236 in | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--------------------------------|--------------------------------|---|
| Hardness, Shore OO | 60 | 60 | 10 mm cell/cell thickness; ISO 868 1985 |
| Tensile Strength | 0.560 MPa | 81.2 psi | ISO 7214 1998 |
| Elongation at Break | 175 % | 175 % | |
| Flexural Modulus | 0.00100 GPa | 0.145 ksi | BS4370, part 4, method 14 |
| Compressive Yield Strength | 0.0770 MPa | 11.2 psi | BS ISO 7214 1998 |
| | @Strain 10.0 % | @Strain 10.0 % | |
| | 0.0940 MPa | 13.6 psi | |
| | @Strain 25.0 % | @Strain 25.0 % | BS ISO 7214 1998 |
| | 0.130 MPa | 18.9 psi | BS ISO 7214 1998 |
| @Strain 40.0 % | @Strain 40.0 % | | |
| | 0.170 MPa | 24.7 psi | BS ISO 7214 1998 |
| | @Strain 50.0 % | @Strain 50.0 % | |
| Tear Strength | 1.15 kN/m | 6.56 pli | BS EN ISO 8067 1995 |
| Compression Set | 2.5 % | 2.5 % | 24 hr recovery; BS ISO 7214 1998 |
| | @Time 79200 sec, Strain 25.0 % | @Time 22.0 hour, Strain 25.0 % | |

| 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 |
| | 10 % | 10 % | 24 hr recovery; BS ISO 7214 1998 |
| | @Time 79200 sec, Strain 50.0 % | @Time 22.0 hour, Strain 50.0 % | |
| | 18.5 % | 18.5 % | 0.5 hr recovery; BS ISO 7214 1998 |
| | @Time 79200 sec, Strain 50.0 % | @Time 22.0 hour, Strain 50.0 % | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------------------|-------------------------------------|---|
| Thermal Conductivity | 0.0420 W/m-K | 0.291 BTU-in/hr-ft ² -°F | mean temp of 10°C; ISO 8302 1991 |
| Maximum Service Temperature, Air | 105 °C | 221 °F | |
| Minimum Service Temperature, Air | -70.0 °C | -94.0 °F | |
| Flammability Test | 0.70 | 0.70 | Horizontal Burn Rate, mm/sec; ISO 7214 1998 |
| | @Thickness 13.0 mm | @Thickness 0.512 in | |
| | 1.3 | 1.3 | Horizontal Burn Rate, mm/sec; ISO 7214 1998 |
| | @Thickness 5.00 mm | @Thickness 0.197 in | |
| Shrinkage | <= 1.0 % | <= 1.0 % | |
| | @Temperature 70.0 °C | @Temperature 158 °F | |
| | <= 2.0 % | <= 2.0 % | |
| | @Temperature 80.0 °C | @Temperature 176 °F | |
| | <= 3.0 % | <= 3.0 % | |
| | @Temperature 90.0 °C | @Temperature 194 °F | |

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