

Zotefoams Plastazote® LD33FM Low Density Polyethylene Foam, Flame Retarded

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-LD33FM-Low-Density-Polyethylene-Foam-Flame-Retarded.php

| Physical Properties | Metric | English | Comments |
|---------------------|----------------------|---------------------------------------|-------------------------------------|
| Density | 0.0270 - 0.0360 g/cc | 0.000975 - 0.00130 lb/in ³ | sheet density |
| | 0.0330 g/cc | 0.00119 lb/in ³ | Nominal skin/skin; BS ISO 7214 1998 |
| Cell Length | 0.370 mm | 0.0146 in | Typical Diameter |
| | 0.250 - 0.600 mm | 0.00984 - 0.0236 in | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|--------------------------------|--------------------------------|---|
| Hardness, Shore OO | 55 | 55 | 10 mm cell/cell thickness; ISO 868 1985 |
| Tensile Strength | 0.380 MPa | 55.1 psi | ISO 7214 1998 |
| Elongation at Break | 150 % | 150 % | |
| Compressive Yield Strength | 0.0510 MPa | 7.40 psi | BS ISO 7214 1998 |
| | @Strain 10.0 % | @Strain 10.0 % | |
| | 0.0680 MPa | 9.86 psi | |
| | @Strain 25.0 % | @Strain 25.0 % | BS ISO 7214 1998 |
| | 0.102 MPa | 14.8 psi | BS ISO 7214 1998 |
| | @Strain 40.0 % | @Strain 40.0 % | |
| | 0.137 MPa | 19.9 psi | BS ISO 7214 1998 |
| | | @Strain 50.0 % | |
| Tear Strength | 0.830 kN/m | 4.74 pli | BS EN ISO 8067 1995 |
| Compression Set | 3.5 % | 3.5 % | 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 |
| | 14.5 % | 14.5 % | 24 hr recovery; BS ISO 7214 1998 |
| | @Time 79200 sec, Strain 50.0 % | @Time 22.0 hour, Strain 50.0 % | |
| | 22.5 % | 22.5 % | 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 | 0.0390 W/m-K | 0.271 BTU-in/hr-ft ² -°F | mean temp of 10°C; ISO 8302 1991 |
| Maximum Service Temperature, Air | 100 °C | 212 °F | |
| Minimum Service Temperature, Air | -70.0 °C | -94.0 °F | |

| Descriptive Properties | Value | Comments |
|------------------------|-------------------------------------|-----------------------------------|
| Flammability | Automotive: FMVSS.302 burn rate | Pass: 2 mm and thicker |
| | Construction: DIN4102 pt14-B1 | Pass: 6 to 20 mm thick |
| | Horizontal Burn Rate: ISO 7214 1998 | Extinguishes and melts from flame |

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