

Koblend® P 477E

Polystyrene Alloy

Versalis S.p.A.

Message:

Special polystyrene alloy which combines the easy processing of styrenics with superior impact strength and excellent environmental stress cracking resistance to chemicals, oils and fatty foods.

Koblend P 477E is recommended for the extrusion and the thermoforming of sheets for industrial applications, for inner liners of refrigerators and packaging for fatty foods.

Applications

Thermoformed panels for tractors, inner liner for refrigerators where HCFC 141b is used as blowing agent for the insulating PU foam, tubs and lids for packaging of fatty foods such as margarine, salads etc.

| General Information | | | |
|--|---|-------------------|-------------|
| Features | Food Contact Acceptable | | |
| | Good Chemical Resistance | | |
| | Good Impact Resistance | | |
| | Good Processability | | |
| | High ESCR (Stress Crack Resist.) | | |
| | Oil Resistant | | |
| Uses | Food Packaging | | |
| | Industrial Applications | | |
| | Lids | | |
| | Liners | | |
| | Sheet | | |
| Agency Ratings | EU No 10/2011 | | |
| Forms | Pellets | | |
| Processing Method | Extrusion | | |
| | Thermoforming | | |
| Multi-Point Data | Isothermal Stress vs. Strain (ISO 11403-1) | | |
| | Secant Modulus vs. Strain (ISO 11403-1) | | |
| | Shear Modulus vs. Temperature (ISO 11403-1) | | |
| | Specific Heat vs. Temperature (ISO 11403-2) | | |
| | Viscosity vs. Shear Rate (ISO 11403-2) | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.00 | g/cm ³ | ISO 1183 |
| Apparent Density | 0.62 | g/cm ³ | ISO 60 |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 5.5 | g/10 min | ISO 1133 |
| Water Absorption (23°C, 24 hr) | < 0.10 | % | ISO 62 |

| Mechanical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|--------------|
| Tensile Modulus | 1200 | MPa | ISO 527-2/1 |
| Tensile Stress | | | ISO 527-2/50 |
| Yield | 20.0 | MPa | |
| Break | 19.0 | MPa | |
| Tensile Strain (Break) | 80 | % | ISO 527-2/50 |
| Flexural Stress ¹ | 32.0 | MPa | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact Strength ² | | | ISO 180/1A |
| -30°C | 20 | kJ/m ² | |
| 23°C | 33 | kJ/m ² | |
| Thermal | Nominal Value | Unit | Test Method |
| Vicat Softening Temperature | 99.0 | °C | ISO 306/A50 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating (1.50 mm) | HB | | UL 94 |
| Extrusion | Nominal Value | Unit | |
| Melt Temperature | 200 to 230 | °C | |
| NOTE | | | |
| 1. | 2.0 mm/min | | |
| 2. | 4 mm | | |

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