

P 477E

Blend PS-PE

Technical Data Sheet

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

Applications

Koblend® P 477E is suitable in a large variety of sectors such as:

- thermoformed panels for tractors
- inner liners for refrigerators
- flexible profiles
- tubs and lids for packaging of fatty foods.

Typical processing data

Extrusion:

- melt temperature 200-230°C

Certification

✓ UL 94

Koblend® P 477E, as supplied in the original packaging, by composition is compliant to some existing regulations on plastic materials intended for food contact.

Storage

- ⚠ Store away from atmospheric agents and direct sunlight, away from sources of heat and light.
- 🕒 The product, if stored correctly, keeps its characteristics for at least fifteen months.

General information

Koblend® P 477E is available in natural version.



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Property	Test Conditions	Test method	Units	Values
General				
Water absorption	24h - 23°C	ISO 62	%	<0,1
Density	-	ISO 1183	g/cm ³	1,07
Bulk density	-	ISO 60	g/cm ³	0,62
Rheological				
Melt flow rate	200°C - 5kg	ISO 1133	g/10'	5,5
Mechanical				
Tensile strain at break	50 mm/min	ISO 527	%	80
Tensile stress at break	50 mm/min	ISO 527	MPa	19
Tensile stress at yield	50 mm/min	ISO 527	MPa	20
Flexural strength	2 mm/min	ISO 178	MPa	32
Tensile modulus	1 mm/min	ISO 527	MPa	1200
Izod impact strength, notched	-30°C - 4mm	ISO 180/1A	kJ/m ²	10
Izod impact strength, notched	+23°C - 4mm	ISO 180/1A	kJ/m ²	25
Thermal				
Vicat softening temperature	10 N - 50°C/h	ISO 306/A	°C	99
Flammability				
Flame behaviour	1,5 mm	UL 94	cl.	HB

