

Isplen® Polypropylene

Chemicals

Technical data sheet



ISPLEN® PM276EV

ISPLEN® PM276EV is a copolymer 16% mineral fillers reinforced. It shows a high impact resistance with an excellent scratch resistance, and good stiffness and demoulding properties during the transformation process. The product is UV stabilised.

APPLICATIONS

- Automotive: Interior trims and panels.
- Technical pieces, in general.

Recommended melt temperature range from 190 to 250°C. Processing conditions should be optimised for each production line.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
Melt flow rate (230°C/2.16Kg)	15	g/10min	ISO 1133
Density at 23°C	990	kg/m ³	ISO 1183
Mechanical			
Flexural modulus of elasticity	1.700	MPa	ISO 178
Tensile modulus of elasticity	2.100	MPa	ISO 527-2
Tensile strength at break	20	MPa	ISO 527-2
Tensile strain at break	4	%	ISO 527-2
Tensile strength at yield	17	MPa	ISO 527-2
Tensile strain at yield	16	%	ISO 527-2
Charpy impact strength (23°C, notched)	9	kJ/m ²	ISO 179
Charpy impact strength (23°C, unnotched)	NR	kJ/m ²	ISO 179
Charpy impact strength (0°C, unnotched)	83	kJ/m ²	ISO 179
Charpy impact strength (-20°C, notched)	2.7	kJ/m ²	ISO 179
Charpy impact strength (-20°C, unnotched)	53	kJ/m ²	ISO 179
Charpy impact strength (-40°C, notched)	2,3	kJ/m ²	ISO 179
Charpy impact strength (-40°C, unnotched)	45	kJ/m ²	ISO 179
Thermal			
Vicat softening temperature A120 (10N)	144	°C	ISO 306
Vicat softening temperature A120 (50N)	66	°C	ISO 306
HDT 0.45 MPa	73	°C	ISO 75
HDT 1.8 MPa	53	°C	ISO 75
Others			
Moulding shrinkage (S _{Mp} /S _{Mn})	0.75 / 0.77	%	ISO 294-4
Shore hardness D	60	-	ISO 868

STORAGE

ISPLEN® PM276EV should be stored in dry atmosphere paved, drained and not flooded area at temperatures under 60 °C and protected from UV radiation. Storage under improper conditions could trigger off degradation processes, negatively influencing processability and properties of the transformed product.

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This information is offered in good faith and meant only as a guide. The transformer or user will be, in each case, responsible for the processing conditions and the final use of the product. Freedom under patents, copyright and registered designs cannot be assumed.

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