

Isplen[®] Polypropylene

Chemicals

Technical data sheet



ISPLEN[®] PM281 AV

DESCRIPTION

Polypropylene copolymer, 20% mineral fillers reinforced and good melt flow rate.

ISPLEN[®] PM281 AV was designed showing a high stiffness with a good impact resistance, and a low warpage and high shrinkage behaviour. It shows really good gloss surface and an good scratch resistance. The product is UV stabilised.

APPLICATIONS

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

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
MFI (230°C, 2.16Kg)	26	g/10min	ISO 1133
Density	1,04	g/cm ³	ISO 1183
Mechanical			
Flexural Modulus of Elasticity	2200	MPa	ISO 178
Tensile Modulus of Elasticity	1800	MPa	ISO 527-2
Tensile Strength at Break	19	MPa	ISO 527-2
Elongation at Break	25	%	ISO 527-2
Tensile Strength at Yield	25	MPa	ISO 527-2
Elongation at Yield	4	%	ISO 527-2
Charpy Impact Strength (23 °C notched)	3	KJ/m ²	ISO 179
Charpy Impact Strength (0 °C notched)	2,5	KJ/m ²	ISO 179
Charpy Impact Strength (-20°C notched)	1,5	KJ/m ²	ISO 179
Izod Impact Strength (23 °C notched)	4	KJ/m ²	ISO 180
Thermal			
Vicat (10N, 120°/h)	148	°C	ISO 306
Vicat (50N, 120°/h)	80	°C	ISO 306
HDT (T _{ff} 0,45 MPa)	91	°C	ISO 75
HDT (T _{ff} 1,8 MPa)	61	°C	ISO 75
Others			
Shrinkage, (S _{MP} /S _{Mn})	0,82 – 0,85	%	ISO 294-4
Shore D Hardness, 15s	65	°Shore	ISO 868

STORAGE

El ISPLEN[®] PM 281 AV 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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