Isplen® Polypropylene

Chemicals Technical data sheet

REPSOL

ISPLEN® PM281 BV

DESCRIPTION

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

ISPLEN® PM281 BV 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 excellent 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 (230ºC, 2.16Kg)	19,5	g/10min	ISO 1133
Density	1,05	g/cm^3	ISO 1183
Mechanical			
Flexural Modulus of Elasticity	2500	MPa	ISO 178
Tensile Modulus of Elasticity	2100	MPa	ISO 527-2
Tensile Strength at Break	21	MPa	ISO 527-2
Elongation at Break	18	%	ISO 527-2
Tensile Strength at Yield	26	MPa	ISO 527-2
Elongation at Yield	4	%	ISO 527-2
Charpy Impact Strength (23 ºC notched / unnotched)	3 / 70	KJ/m^2	ISO 179
Charpy Impact Strength (0 ºC notched / unnotched)	2,5 / 40	KJ/m^2	ISO 179
Charpy Impact Strength (-20ºC notched / unnotched)	1,5 / 32	KJ/m^2	ISO 179
Izod Impact Strength (23 ºC notched / unnotched)	4 / 60	KJ/m^2	ISO 180
Thermal			
Vicat (10N, 120º/h)	149	ºC	ISO 306
Vicat (50N, 120º/h)	83	ºC	ISO 306
HDT (T_{ff} 0,45 MPa)	94	ºC	ISO 75
HDT (T_{ff} 1,8 MPa)	63	ºC	ISO 75
Others			
Shrinkage, 150x100x3mm	0,82 – 0,85	%	ISO 2577
Shore D Hardness, 15s	68	ºShore	ISO 868

STORAGE

El ISPLEN® PM 281 BV should be stored in dry atmosphere paved, drained and not flooded area at temperatures under 60 ºC 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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