Isplen® Polypropylene

Chemicals Technical data sheet

REPSOL

ISPLEN® PM274 AS

DESCRIPTION

Polypropylene copolymer, 20% mineral fillers reinforced and with high processability.

ISPLEN® PM274 AS shows high stiffness and good impact strength. It gives good aesthetic properties and high gloss surface.

The product has a standard stabilization, able to be used in the main applications.

APPLICATIONS

- Electrical appliances and white line.
- Automotive: insertion, steps, structural parts.
- Technical pieces, in general.

PROPERTIES	VALUE	UNIT	TEST METHOD
General			
MFI (230ºC, 2.16Kg)	13,5	g/10min	ISO 1133
Density	1,06	g/cm^3	ISO 1183
Mechanical properties			
Flexural Modulus of Elasticity	2300	MPa	ISO 178
Tensile Modulus of Elasticity	2200	MPa	ISO 527-2
Tensile Strength at Break	21	MPa	ISO 527-2
Elongation at Break	15	%	ISO 527-2
Tensile Strength at Yield	21	MPa	ISO 527-2
Elongation at Yield	3	%	ISO 527-2
Charpy Impact Strength (23 ºC notched / unnotched)	3 / 52	KJ/m^2	ISO 179
Charpy Impact Strength (0 ºC notched / unnotched)	2,5 / 30	KJ/m^2	ISO 179
Charpy Impact Strength (-20ºC notched / unnotched)	2,0 / 28	KJ/m^2	ISO 179
Charpy Impact Strength (-40ºC notched / unnotched)	1,6 / 24	KJ/m^2	ISO 179
Thermal properties			
Vicat (10N, 120º/h)	150	ºC	ISO 306
Vicat (50N, 120º/h)	79	ºC	ISO 306
HDT (T_{ff} 0,45 MPa)	91	ºC	ISO 75
HDT (T_{ff} 1,8 MPa)	59	ºC	ISO 75
Others			
Shore D Hardness, 15s	65	ºShore	ISO 868

STORAGE

El ISPLEN® PM 274 AS 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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