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Technical Data Sheet

SIPOLPRENE® 72220 W

DESCRIPTION

SIPOLPRENE® 72220 W is an ether ester thermoplastic elastomer (TPC-ET), developed and manufactured by Sipol, with a nominal hardness of Shore D 72, a very low modulus, and a rheological behaviour, which makes it suitable for injection molding and extrusion processing.

SIPOLPRENE® 72220 W comes in a dry blend UV stabilised version.

THERMAL PROPERTIES

PROPERTY	TEST METHOD	M.U.	TYPICAL VALUE
Melting temperature	ISO 11357-3	°C	218
Crystallization temperature	ISO 11357-3	°C	183
Glass transition temperature	ISO 11357-2	°C	28
Vicat A /50	ISO 306	°C	210

RHEOLOGICAL PROPERTIES

	PROPERTY	TEST METHOD	M.U.	VALUE
MFI	230 °C, 2.16 Kg	ISO 1133	g/10 min	19
MVR	230 °C, 2.16 Kg	ISO 1133	cm³/10min	15

MECHANICAL PROPERTIES

PROPERTY	TEST METHOD	M.U.	TYPICAL VALUE
Shore D hardness, instantaneous / 15 s	ISO 868	Shore D	72/69
Stress at break	ISO 527	MPa	53
Elongation at break	ISO 527	%	460
Flexural modulus	ISO 178	MPa	660
Izod impact resistance/notched (23°C)	ISO 180	J/m	40
Izod impact resistance/notched (-40°C)	ISO 180	J/m	5
Abrasion resistance (Vertical load 5N)	ISO 4649	mm³	76
Compression set (23°C)	ISO 815:1991	%	18
Compression set (70°C)	ISO 815:1991	%	70

OTHER PROPERTIES

PROPERTY	TEST METHOD	M.U.	TYPICAL VALUE
Density	ISO 1183	g/cm³	1,25
Water absorption (23°C x 24 h immersion)	MI 08	%	0.1

Version N°: 3.EN Revision n° 0 Revision date: 23/01/2023

The information provided herein corresponds to our current knowledge on date of publication. This information may be subject to review, if further experience and knowledge become available. The data reported corresponds to typical values and should not be considered as specification limits, or as a basis for design calculations. This data sheet must not in any way be construed as a license or as an invitation or permission to violate any existing patents, the existence of which must be verified by the Customer. The application, use and processing of Sipol products and the quality of the final products obtained by the customer are completely out of our control. The Customer is responsible for verifying that the material is suitable for the specific application; any data given here does not relieve the Customer from conducting appropriate checks and testing. Sipol cannot foresee all possible variations in actual end-use conditions, and therefore offers no warranty and assumes no liability in connection with any use of this information.



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PROCESSING CONDITIONS

Suggested temperature profile for injection molding

MELTING TEMPERATURE	MOLD TEMPERATURE	NOZZLE	FRONT ZONE 3	CENTER ZONE 2	REAR ZONE 1
°C	°C	°C	°C	°C	°C
218	40 - 50	230	225	215	205

Suggested temperature profile for extrusion

MELTING TEMPERATURE	MFI	FEEDING ZONE	COMPRESSION ZONE	METERING ZONE	HEAD/DIE
°C	g/10 min.	°C	°C	°C	°C
218	19 (230 °C, 2.16 Kg)	200 - 215	215 - 225	215 - 230	215 - 230

DRYING CONDITIONS

Drying recommended = Yes
Drying temperature = 90 °C
Drying time, dehumidifier dryer = 2-3 h
Processing moisture content = 0,15%

PACKAGING

25 kg bags equipped with an aluminum film barrier against moisture action. 500 kg cardboard octabins equipped with an inner PE liner. 500 Kg and 1000 Kg big bags.

STORAGE

Product is stable for 12 months when stored unopened in its original packaging, kept in a cool and dry place and protected from light. When stocked around 5 – 10°C or below, it is recommended to keep it at 15 – 20°C for at least for 24 hours before using it.

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