VEGEMAT® E4589

Biodegradable Polymers

VEGEPLAST S.A.S.

Message:

VEGEMAT® is a composite material concept obtained by transforming all the aerial parts of corn with neither separation nor purification of their constituent parts.
Thanks to its technical and chemical properties, this new bioplastique material based on corn, 100% biodegradable, is intended to substitute itself from usual plastics of petrochimical origins, design for injection.
Pieces mades from VEGEMAT® have the advantages of both wood and cardboard for their natural aspect, their biodegradability and the advantage of plastics for their ease of use.
The thermoplastic VEGEMAT® ® granules are shaped by injection moulding with or without having to make any particular adjustment to tooling.
VEGEMAT® existe is available in various grades that meet the technical requirements of industrialist.
* VEGEMAT® E4589 for making solid items (of > 4-5 mm thick).
* VEGEMAT® E45114 for slightly technical items (of between 2 and 4 mm thick).
* VEGEMAT® E45122 for making technical items (of < 2mm thick) requiring a really fluid material.

General Information			
Features	Updatable resources Biodegradable		
Forms	Particles		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.45	g/cm³	ISO 1183
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3300	MPa	ISO 527-2
Tensile Stress (Break)	22.0	MPa	ISO 527-2
Tensile Strain (Break)	0.67	%	ISO 527-2
Flexural Modulus	2800	MPa	ISO 178
Flexural Stress	35.0	MPa	ISO 178
Thermal	**Nominal Value**	**Unit**	
Melting Temperature	130 - 145	°C	
Additional Information	**Nominal Value**	**Unit**	
Maximum Hygrometry [1]	80	%	
Utilization Temperature	50 - 60	°C	
Injection	**Nominal Value**	**Unit**	
Rear Temperature	40.0 - 50.0	°C	
Middle Temperature	60.0 - 80.0	°C	
Front Temperature	100 - 130	°C	
Nozzle Temperature	110 - 150	°C	
Mold Temperature	20.0 - 60.0	°C	
Injection Rate	Fast		
Injection instructions			

Holding duration: 2 to 5 secSolidifying duration: 10 to 20 sec
NOTE
1. without treating surface

Recommended distributors for this material

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