

ORFITRANS™ MEDIUM SOFT

Thermoforming conditions		
Activation temperature (convection oven)	150	°C
Activation time - sheet thickness 8 mm	17	min
Activation time - sheet thickness 10 mm	18	min
Activation time - sheet thickness 12 mm	21	min
Activation time - sheet thickness 15 mm	25	min
Maximum shrinkage during activation	3.2	%
Maximum thermal shrinkage during cooling	4.9	%
Mechanical properties at 21°C		
Flexural modulus	75	MPa
Aging: reduction of flexural modulus after UV-lighting for 210 h	18.3	%
Elastic modulus	75	MPa
Tensile strength	24	MPa
Strain at break	800	%
Shore D hardness	43	
Impact resistance	no break	
General properties		
Density	0.94	g.cm ⁻³
Degradation temperature	200	°C
Color	opaque	
Odor	acid smell	
Biocompatible	yes	



INFORMATION

The flexural modulus indicates the material stiffness in bending.

Aging: the indicated time (h) denotes the start of yellowing in an aging accelerator. 250 h equals 1 year of solar energy in Belgium.

The elastic modulus indicates the material stiffness in tensile.

The tensile strength is the pulling force required to break the material.

The strain at break is the length increase of the material when stretched until failure.

The hardness indicates the resistance of the material to compression.

The impact resistance is the susceptibility of the material to fracture under stresses applied at high speeds.

The degradation temperature is determined in helium.

The biocompatibility is studied according the guidelines of the International Organization for Standardization 10993 – Biological Evaluation of Medical Devices:

- o Primary skin irritation study.
- Delayed dermal contact sensitization study.
- Cytotoxicity study.

Note:

Although the information in this publication is believed to be accurate and reliable, the data shown are for guidance only. Orfit Industries gives no guarantees about the results and assumes no liability in connection with them. The properties reported here are intended primarily to facilitate comparison among Orfit products. Standard testing methods often allow alternative measuring methods. Therefore, data from other sheet manufacturers may not be directly comparable. For additional information, please contact Orfit Industries.





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ORFITRANS™ MEDIUM SOFT BEIGE

Activation temperature (IR oven) Activation time – sheet thickness 6 mm Activation time – sheet thickness 8 mm Activation time – sheet thickness 8 mm Activation time – sheet thickness 10 mm Activation time – sheet thickness 10 mm Activation time – sheet thickness 12 mm Baximum shrinkage during activation Maximum shrinkage during activation Maximum thermal shrinkage during cooling Mechanical properties at 21°C Flexural modulus Frosile strength Flexural modulus For in a break Flexural modulus Flexural modulus For in a break Flexural modulus Flexural	Thermoforming conditions		
Activation time - sheet thickness 8 mm Activation time - sheet thickness 10 mm Activation time - sheet thickness 12 mm 16m00 Maximum shrinkage during activation Maximum thermal shrinkage during cooling Maximum shrinkage during cooling Ma	Activation temperature (IR oven)	150	°C
Activation time – sheet thickness 10 mm Activation time – sheet thickness 12 mm 16m00 min Maximum shrinkage during activation 3.2 % Maximum thermal shrinkage during cooling 4.9 % Mechanical properties at 21°C Flexural modulus 75 MPa Aging: reduction of flexural modulus after UV-lighting for 210 h Elastic modulus 75 MPa Tensile strength 24 MPa Strain at break 800 % Shore D hardness Impact resistance Density Degradation temperature Color Odor Odor	Activation time – sheet thickness 6 mm	8m30	min
Activation time - sheet thickness 12 mm Maximum shrinkage during activation Maximum thermal shrinkage during cooling Mechanical properties at 21°C Flexural modulus 75 MPa Aging: reduction of flexural modulus after UV-lighting for 210 h Elastic modulus 75 MPa Tensile strength 75 MPa Strain at break 800 % Shore D hardness Impact resistance Density Degradation temperature Color Odor Odor	Activation time - sheet thickness 8 mm	10m00	min
Maximum shrinkage during activation3.2%Maximum thermal shrinkage during cooling4.9%Mechanical properties at 21°CFlexural modulus75MPaAging: reduction of flexural modulus after UV-lighting for 210 h18.3%Elastic modulus75MPaTensile strength24MPaStrain at break800%Shore D hardness43mo breakImpact resistanceno breakGeneral propertiesDensity0.94g.cm³Degradation temperature200°CColorbeigeOdoracid smell	Activation time – sheet thickness 10 mm	12m00	min
Maximum thermal shrinkage during cooling Mechanical properties at 21°C Flexural modulus Aging: reduction of flexural modulus after UV-lighting for 210 h Elastic modulus 75 MPa Tensile strength 24 MPa Strain at break 800 % Shore D hardness 43 Impact resistance Density Density Degradation temperature Color Odor A.9 % MPa 4.9 % MPa 4.9 % MPa 4.9 % MPa 4.9 M	Activation time - sheet thickness 12 mm	16m00	min
Mechanical properties at 21°C Flexural modulus 75 MPa Aging: reduction of flexural modulus after UV-lighting for 210 h 18.3 % Elastic modulus 75 MPa Tensile strength 24 MPa Strain at break 800 % Shore D hardness 43 Impact resistance no break General properties Density 0.94 g.cm-3 Degradation temperature 200 °C Color beige Odor acid smell	Maximum shrinkage during activation	3.2	%
Flexural modulus Aging: reduction of flexural modulus after UV-lighting for 210 h Elastic modulus 75 MPa 76 MPa 77 MPa 77 MPa 78 MPa 79 MPa 79 MPa 70 MPa 70 MPa 70 MPa 71 MPa 72 MPa 75 MPa 76 MPa 76 MPa 77 MPa 78 MPa 78 MPa 79 MPa 78 MPa 78 MPa 78 MPa 78 MPa 78 MPa 78 MPa 80 MPa 8	Maximum thermal shrinkage during cooling	4.9	%
Aging: reduction of flexural modulus after UV-lighting for 210 h Elastic modulus 75 MPa Tensile strength 24 MPa Strain at break 800 % Shore D hardness Impact resistance 143 Impact resistance no break General properties Density Density Degradation temperature Color Deige Odor Aging: reduction of flexural modulus after UV-lighting for 210 h 18.3 % Page 18.3 No Page	Mechanical properties at 21°C		
Elastic modulus 75 MPa Tensile strength 24 MPa Strain at break 800 % Shore D hardness 43 Impact resistance no break General properties Density 0.94 g.cm ⁻³ Degradation temperature 200 °C Color beige Odor	Flexural modulus	75	MPa
Tensile strength 24 MPa Strain at break 800 % Shore D hardness 43 Impact resistance no break General properties Density 0.94 g.cm ⁻³ Degradation temperature 200 °C Color beige Odor acid smell	Aging: reduction of flexural modulus after UV-lighting for 210 h	18.3	%
Strain at break 800 % Shore D hardness 43 Impact resistance no break General properties Density 0.94 g.cm ⁻³ Degradation temperature 200 °C Color beige Odor acid smell	Elastic modulus	75	MPa
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General propertiesDensity0.94g.cm ⁻³ Degradation temperature200°CColorbeigeOdoracid smell	Shore D hardness	43	
Density 0.94 g.cm ⁻³ Degradation temperature 200 °C Color beige Odor acid smell	Impact resistance	no break	
Degradation temperature 200 °C Color beige Odor acid smell	General properties		
Color beige Odor acid smell	Density	0.94	g.cm ⁻³
Odor acid smell	Degradation temperature	200	°C
	Color	beige	
Biocompatible yes	Odor	acid smell	
	Biocompatible	yes	

TECHNICAL DATA SHEET



INFORMATION

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