

# EUROPLEX® Sheet O

Polyamide

Evonik Industries AG

## Message:

EUROPLEX® O is a novel material for the manufacturing of orthopedic devices. The advantages can be summed up as follows:

EUROPLEX® O is characterized by its excellent impact and notched impact strength as well as its rigidity. Insoles and other orthopaedic devices made from EUROPLEX® O are virtually unbreakable.

EUROPLEX® O can be thermoformed from temperatures as low as 90°C without pre-drying. It is easy to machine and its shape can also be subsequently corrected by simple means.

EUROPLEX® O is not attacked by perspiration and is generally highly resistant to chemicals.

The relatively light inherent color of EUROPLEX® O makes orthopedic aids very unobtrusive to wear and enables pressure points to be easily identified during fitting.

EUROPLEX® O shows very good X-ray transmission. That means there is no need to remove orthopaedic devices for this examination method.

EUROPLEX® O is physiologically unobjectionable and has a perfectly smooth surface. It is therefore easy-care and hygienic.

General Information			
Features	Good Chemical Resistance		
	High Impact Resistance		
	High Rigidity		
	Machinable		
	X-Ray Transparent		
Uses	Medical/Healthcare Applications		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm <sup>3</sup>	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2
Tensile Stress	85.0	MPa	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	7.0	kJ/m <sup>2</sup>	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	99.0	°C	ISO 306/B50
Maximum Service Temperature	70	°C	

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