

EUROPLEX® Sheet PPSU Medicine

Polyphenylsulfone
Evonik Industries AG

Message:

EUROPLEX® sheets based on the engineering polymer polyphenyl sulphone (PPSU) are employed more and more frequently to manufacture trays or containers for medical instruments or implants.
Sheet material as a basis for such containers offers more rapid and flexible design and manufacturing options than injection molding. Because of the relatively low costs for forming equipment, the use of sheet material is a very economical solution, particularly for smaller series.

General Information			
Features	Amorphous		
	Flame Retardant		
	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Sterilizability		
	High Impact Resistance		
	Hydrolysis Resistant		
	Self Extinguishing		
Uses	Containers		
	Medical/Healthcare Applications		
Agency Ratings	FDA Food Contact, Unspecified Rating		
	ISO 10993		
	USP Class VI		
Forms	Sheet		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.29	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2350	MPa	ISO 527-2
Tensile Stress	70.0 to 80.0	MPa	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	50 to 60	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	222	°C	ISO 306/B50
Maximum Service Temperature	190	°C	

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WECHAT