P84® Fibers

Aromatic Polyimide

Evonik Industries AG

Message:

P84® polyimide derived from aromatic dianhydrides and aromatic diisocyanates exhibits outstanding thermal stability. The polymer is non melting, has a glass transition temperature of 315°C. The fibres start to carbonize at temperatures beyond 370 °C. Due to the aromatic structure the polymer and fibres are inherent non flammable. A limiting oxygen index of 38 percent can be measured. P84 can be used to temperatures up to 260 °C depending on the environment.
Fibre Properties
Features of the P84 polyimide fibres are the irregularly lobed cross-section being responsible for the high bulk of the fibres. The typical mechanical fibre data describe that P84 is rather a textile fibre with good knot and loop strength properties. Because of the low modulus and the high elongation P84 polyimide fibres are not destined for typical "reinforcing" applications as p-aramid or carbon fibres.

General Information			
Features	Aromatic Flame Retardant Good Thermal Stability		
Forms	Fiber		
Physical	**Nominal Value**	**Unit**	
Density	1.41	g/cm³	
Shrinkage - 10 minutes (240°C)	< 3.0	%	
Tenacity	4.29	g/denier	
Mechanical	**Nominal Value**	**Unit**	
Tensile Strain (Break)	30	%	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	315	°C	DSC
Flammability	**Nominal Value**	**Unit**	
Oxygen Index	38	%	

Recommended distributors for this material

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