

Precision Cut Fibres

Product	Material	Melting point (°C)	Fibre length (mm)	dTex	Main applications
PP	Polypropylene	160 -170	0.5 - 70	3.3 / 17	Reinforcement, anti-cracking
PPHF	Highly Fibrillated Polypropylene	160 -170	0.5 - 70	3.3 / 17	Reinforcement, anti-cracking
PE	Polyester	>230	0.5 - 70	1.7 / 2.2 / 3.3	Reinforcement, anti-cracking

Fibre reinforcement: Precision Cut Fibres

Precision Cut fibres are produced from continuously extruded polymer filaments or from finely slit polymer films. Fibre is precision cut to a range of lengths, typically from 1mm - 70mm.

Refractory Reinforcement

Precision Cut polypropylene mono-filament fibres PP grades and highly fibrillated polypropylene fibres from slit films (PPHF grades) are used to improve the “green-strength ” and permeability of refractory products. Additionally the fibres perform another important function. During the early stages of the refractory dry firing process the fibres shrink or melt, forming voids. The reduction in volume as the fibre shrinks and melts allows trapped gases, especially steam, to escape and prevent cracking and explosive “spalling” of the refractory product.

Typically, Precision Cut fibres of 3mm to 12mm long have been used in these applications but Goonvean Fibres is able to supply specific sizes to meet individual customer requirements. Goonvean Fibres also offer a pre-weighed “small pack” service, where the fibres are accurately weighed into polyethylene or other bags at weights to suit the individual customer (typically 500g).