

Product Information

PEBA

Physical Form And Storage

PEBA is a thermoplastic elastomer whose special aggregation is not included. The product has both the high-strength characteristics of engineering plastics, and has a rubber back-elasticity and toughness, which significant processing performance make it widely used in many areas.

Appliance: Wire and cable cover, smart wear accessories, silence gear, sports sole, etc.

Note

Processing technology of PEBA:

The Pebas has water absorption, so it needs to be dried before processing. The length of drying time and temperature also vary slightly according to the hardness of the material.

The drying process is:

Hardness:25-45D drying temperature: 70-90 °C, drying time: 4-7h

Hardness:55-72D drying temperature: 70-90 °C, drying time: 5-7h

The processing technology is:

Hardness:25-45D, injection temperature: 210-240 °C, mold temperature: 10-30 °C

Hardness:55-72D, injection temperature: 240-260 °C, mold temperature: 25-60 °C

Note: PEBA is a recyclable material, but the addition proportion of recycled material shall not exceed 10-15%.



PEBA Technical Data Sheet

Typical values for uncolored product at 23°C	Test method	Unit	Typical values			
			K1240	K1255	K1262	K1270
Mechanical Properties						
Tensile Strength	ASTM D638	MPa	40	37	37	56
Elongation at break		%	>500	>500	>500	>500
Thermal Properties						
Melting Point	ISO 11357	°C	150	159	159	190
General Properties and Processability						
Density	ISO 1183	g/cm ³	1.07	1.05	1.05	1.06
Shore hardness	ISO 868	D	40	55	62	70
Moisture Absorption, Equilibrium 20°C 50% r.h	ISO 62	%	1.8	0.5	0.5	0.7
Moisture Absorption, 23°C and 24h in water	ISO 62	%	3.6	1.2	1.2	1.3

Notes:

Typical values: These are not to be construed as specifications.



DONGGUAN SHENGWEN PLASTIC TRADING CO.,LTD.