



PA12

<i>Product Name</i>	<i>Intrinsic viscosity</i>	<i>Colour</i>	<i>Density</i>	Data generated directly after machining (standard climate China)
PA12	/	Natural	1.08g/cm ³	

<i>Material Properties</i>	<i>Main features</i>	<i>Target Industries</i>
➤ Injection Molding Grade	➤ high strength ➤ good dimensional stability	➤ mechanical engineering ➤ automotive industry ➤ electrical appliances

<i>Mechanical strength</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Tensile strength	50mm/min	55	Mpa	ISO 527-2	1)
Elongation at Break	50mm/min	80	%	ISO 527-2	1)For tensile test specimen 1b
Flexural Strength	2mm/min	80	Mpa	ISO 178	2) Specimen 80mm × 10mm × 4mm
Flexural Modulus	2mm/min	1900	Mpa	ISO 178	
Izod Notched Impact Strength	23℃	4	kJ/m ²	ISO 180	
<i>Thermal performance</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Temperature of Deflection Under Load	1.8MPa	80	℃	ISO 75	3) 3)Specimen 80mm × 10mm × 4mm
Temperature of Deflection Under Load	0.45MPa	/	℃	ISO 75	
Melting temperature	/	178	℃	ISO 11375	
<i>Electrical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Surface resistivity	/	10 ¹⁵	Ω	/	
Volume resistivity	/	10 ¹⁵	Ω · cm	/	
<i>Other properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Water absorption	23℃,24h	0.8	%	ISO 62	
Flammability	/	/	class	UL94	
Solid Filler Content	1h,600℃	/	%	ISO 3451	
<i>Suggested Temperature</i>		240-280	℃		

◆The information in this manual is derived from our research and practical experience. We provide this information in good faith, but it does not constitute any warranty and does not assume liability arising from third party litigation. The typical values listed are for reference only and are not intended as a promise of product quality.