

UBE Nylon PAE1201U

Polyamide 12 Elastomer

UBE America, Inc.

Message:

UBE Nylon PAE1201U is a polyamide 12 elastomer (nylon 12 elastomer) material. This product is available in North America. The main feature of UBE Nylon PAE1201U is transparency.
Typical application areas include:
engineering/industrial accessories
Hose
Consumer goods
Handle
medical/health care

General Information			
Features	Low density		
	Definition, high		
Uses	Handle		
	Wheels		
	Gear		
	Pipe fittings		
	Footwear		
	Glasses		
Appearance	Clear/transparent		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.00	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/2.16 kg)	8.6	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	65		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	19.0	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	300	%	ASTM D638
Flexural Modulus (23°C)	360	MPa	ASTM D790
Flexural Strength (23°C)	16.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	110	°C	ASTM D648
Melting Temperature	165	°C	

Additional Information

The value listed as Melting Point was tested in accordance with ASTM D3418.Tensile Elongation at Break, ASTM D638, 23°C: >300%

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