

Huafon EP625

Polyamide 66
Huafon Group Co., Ltd.

Message:

EP625 is a high-end Nylon 66 resin for engineering plastics. This resin offers a well—balanced combination of engineering properties characterized by high strength and dimension stability; good flow, surface lubricity and cold resistance.

Typical Properties

EP625 is especially suitable for demanding injection molding flow properties and fire resistance. Terminal applications mainly in machinery, electronics, electrical, instrumentation, automotive components, railway, home appliances, communications, cable ties and precision engineering products, etc., EP625 also can be used for the production of medical equipment, sporting goods, daily necessities and so on.

General Information			
Features	Flame Retardant		
	Good Dimensional Stability		
	Good Flow		
	High Strength		
	Low Temperature Resistant		
Uses	Appliances		
	Automotive Applications		
	Electrical/Electronic Applications		
	Engineering Parts		
	Medical Devices		
	Sporting Goods		
	Telecommunications		
Appearance	Clear/Transparent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	90	g/10 min	ISO 1133
Particle Size	1.40 to 2.00	g/100 pellets	Internal Method
Relative Viscosity	2.50 to 2.60		Internal Method
Water Content	< 2500	mg/kg	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹	76.1	MPa	ISO 527-2
Tensile Strain ² (Break)	55	%	ISO 527-2
Flexural Modulus ³	2640	MPa	ISO 178
Flexural Stress ⁴	99.8	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (23°C)	6.1	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature ⁶			
0.45 MPa, Annealed	192	°C	ISO 75-2/B
1.8 MPa, Annealed	66.4	°C	ISO 75-2/A
Vicat Softening Temperature ⁷	240	°C	ISO 306/B120
Peak Melting Temperature ⁸	266	°C	ASTM D3418
Flammability	Nominal Value		Test Method
Flame Rating ⁹			UL 94
1.00 mm	V-2		
1.60 mm	V-2		
3.00 mm	V-2		
NOTE			
1.	48h/23°C/50%RH		
2.	48h/23°C/50%RH		
3.	48h/23°C/50%RH		
4.	48h/23°C/50%RH		
5.	48h/23°C/50%RH		
6.	48h/23°C/50%RH		
7.	48h/23°C/50%RH		
8.	10°C/min		
9.	48h/23°C/50%RH		

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