

Huaфон EP158N

Polyamide 66
Huaфон Group Co., Ltd.

Message:

EP158N is a general purpose Nylon 66 resin. This resin offers a well-balanced combination of engineering properties characterized by high strength; good toughness; high impact; good flow and surface lubricity; abrasion resistance.

Typical Applications

EP158N is especially suitable for demanding injection molding flow properties and low temperature performance plus general purpose. Terminal applications mainly in machinery, electronics, electrical, instrumentation, automotive components, railway, home appliances, communications, cable ties and precision engineering products, etc., EP158N also can be used for the production of medical equipment, sporting goods, daily necessities and so on.

General Information			
Features	General Purpose		
	Good Abrasion Resistance		
	Good Flow		
	Good Toughness		
	High Impact Resistance		
	High Strength		
	Low Temperature Resistant		
Uses	Appliances		
	Automotive Applications		
	Electrical/Electronic Applications		
	Engineering Parts		
	General Purpose		
	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)	86	g/10 min	ISO 1133
Particle Size	1.40 to 2.00	g/100 pellets	Internal Method
Relative Viscosity	2.52 to 2.62		Internal Method
Water Content	< 2500	mg/kg	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹	74.1	MPa	ISO 527-2
Tensile Strain ² (Break)	55	%	ISO 527-2
Flexural Modulus ³	2650	MPa	ISO 178
Flexural Stress ⁴	98.1	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (23°C)	5.9	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶			
0.45 MPa, Annealed	183	°C	ISO 75-2/B
1.8 MPa, Annealed	65.3	°C	ISO 75-2/A
Vicat Softening Temperature ⁷	238	°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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