

Huaфон EP158

Polyamide 66
Huaфон Group Co., Ltd.

Message:

EP158 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 surface lubricity: abrasion resistance; resistant low temperature: self-extinguishment.

Typical Applications

EP158 is suitable for compounding and injection molding, also widely used in spinning monofilament, staple. Terminal applications mainly in machinery, electronics, electrical, instrumentation, automotive components, railway, home appliances, communications, textile, oil pipe/tank and precision engineering products, etc., EP158 also can be used for the production of film, packing, medical equipment, sporting goods, and daily necessities and so on.

General Information	
Features	General Purpose
	Good Abrasion Resistance
	Good Toughness
	High Impact Resistance
	High Strength
	Low Temperature Resistant
	Self Extinguishing
Uses	Appliances
	Automotive Applications
	Compounding
	Electrical/Electronic Applications
	Engineering Parts
	Film
	General Purpose
	Medical Devices
	Monofilaments
	Packaging
	Piping
	Sporting Goods
	Tanks
Appearance	Clear/Transparent
Processing Method	Compounding
	Fiber (Spinning) Extrusion
	Injection Molding

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (275°C/2.16 kg)	71	g/10 min	ISO 1133
Particle Size	1.40 to 2.00	g/100 pellets	Internal Method
Relative Viscosity	2.62 to 2.72		Internal Method
Water Content	< 5000	mg/kg	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress ¹	75.3	MPa	ISO 527-2
Tensile Strain ² (Break)	70	%	ISO 527-2
Flexural Modulus ³	2660	MPa	ISO 178
Flexural Stress ⁴	99.6	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (23°C)	6.1	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶			
0.45 MPa, Annealed	186	°C	ISO 75-2/B
1.8 MPa, Annealed	67.4	°C	ISO 75-2/A
Vicat Softening Temperature ⁷	240	°C	ISO 306/B120
Peak Melting Temperature ⁸	268	°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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