

ARKPA66180H

Polyamide 66

Description

ARKPA66180H is an injection molding Nylon 66 resin. This resin offers a well-balanced combination of engineering properties characterized by good toughness; high impact; good surface lubricity; abrasion resistance; self-extinguishment.

Typical Applications

As an injection molding resin, ARKPA66180H is suitable for the production of cable ties and other molding product.

Basic Information			
Features	Good toughness, high impact good lubricity abrasion resistance self-extinguishing		
Appearance	Clear/Transparent		
Processing method	Injection moulding		
Physical Properties	Rated value	Unit	Test Method
Melt Flow Rate (275°C/2.16 kg)	70	g/10 min	ISO 1133
Water content		mg/kg	Internal method
Pellet Size	1.40 - 2.00	g/100 pellets	Internal method
Relative Viscosity	2.62 - 2.72		Internal method
Mechanical Properties	Rated value	Unit	Test Method
Tensile Strength	74.6	MPa	ISO 527-2
Elongation at Break	69	%	ISO 527-2
Flexural Modulus	2640	MPa	ISO 178
Flexural Strength	97.6	MPa	ISO 178
Impact Properties	Rated value	Unit	Test Method
Charpy Unnotched Impact Strength(23°C)	6.0	kJ/m²	ISO 179
Thermal Properties	Rated value	Unit	Test Method
HDT			
0.45 Mpa ,Annealed	184	°C	ISO 75-2/B
1.8 MPa, Annealed	66.1	°C	ISO 75-2/A
Vicat Softening Temp	239	°C	ISO 306/B120
Melting Flow Temp	267	°C	ASTM D3418
Flammability	Rated value	Unit	Test Method
UL Flammability			UL 94
1.00 mm	V-2		UL 94
1.60 mm	V-2		UL 94
3.00 mm	V-2		UL 94
Remark			
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		