

KPOL-NYLON K-NY66/21IF

Polyamide 66
KPOL Chem Co.

Message:

Standard Polyamide 66
Characteristics
General purpose, natural color PA66 resin suitable for compounding, injection molding, and extrusion applications where ease of processing, good set of mechanical properties, high tenacity and elongation, good set of thermal properties good color and physical property retention are desired.
Resin is internally and externally lubricated for improved machine feed and exceptional mold release.
No intentional additives or ingredients used are among those in the European directive 2002/95/EC (RoHS), as amended.
Applications
KPOL® 66/21IF has been used in many molding applications, high productivity, such as terminal blocks, bearings, bushings, cams, eletrical connectors and housings, eletrical cable ties/tie straps and many other hardware and general industrial parts.

General Information			
Additive	Lubricant		
	Nucleating Agent		
Features	General Purpose		
	Good Mold Release		
	Good Processability		
	High Elongation		
	Lubricated		
	Nucleated		
Uses	Bearings		
	Bushings		
	Cams		
	Connectors		
	Electrical/Electronic Applications		
	Housings		
	Industrial Parts		
RoHS Compliance	Strapping		
	RoHS Compliant		
	Natural Color		
	Compounding		
	Extrusion		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4

Across Flow	1.5	%	
Flow : 2.00 mm	1.4	%	
Water Absorption (23°C, 24 hr)	1.2	%	ISO 62
Relative Viscosity - 96% Sulfuric Acid	2.95		ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2800	MPa	ISO 527-2/1
Tensile Stress (Yield)	82.0	MPa	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	3.9	kJ/m ²	
23°C	4.6	kJ/m ²	
Notched Izod Impact Strength (23°C)	5.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	71.0	°C	ISO 75-2/A
Melting Temperature ¹	261	°C	ISO 11357
NOTE			
1.	10°C/min		

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