KOPA® KN333HI5

Polyamide 66

Kolon Plastics, Inc.

Message:

KOPA®KN333HI5 is a polyamide 66 (nylon 66) product. It can be processed by injection molding and is available in North America, Latin America, Europe or Asia Pacific. KOPA®KN333HI5 applications include electrical/electronic applications, engineering/industrial accessories and the automotive industry.
Features include:
flame retardant/rated flame
ROHS certification
Impact resistance
Medium viscosity

General Information			
Features	Impact resistance, good Medium viscosity		
Uses	Electrical/Electronic Applications Industrial components Application in Automobile Field		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.10	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow	1.6 - 1.9	%	ASTM D955
Transverse flow	2.0	%	ISO 294-4
Flow	2.0	%	ISO 294-4
Water Absorption			
23°C, 24 hr	2.7	%	ISO 62
Balanced, 23°C, 60% RH	1.0	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			
Class r	110		ASTM D785
R scale	113		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			
23% strain	59.0	MPa	ASTM D638
23°C	60.0	MPa	ISO 527-2
Tensile Elongation (Break, 23°C)	50	%	ASTM D638, ISO 527-2
Flexural Modulus			
23°C	2260	MPa	ASTM D790

23°C	2200	MPa	ISO 178
Flexural Strength			
23°C	88.0	MPa	ASTM D790
23°C	80.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	55	kJ/m^2	ISO 179/1eA
Notched Izod Impact (23°C)	490	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, not annealed	210	°C	ASTM D648
1.8 MPa, not annealed	70.0	°C	ASTM D648
1.8 MPa, not annealed	66.3	°C	ISO 75-2/A
Melting Temperature	255	°C	ISO 11357-3, ASTM D3418
CLTE - Flow	6.0E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.10		ASTM D150
Arc Resistance	125	sec	ASTM D495
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.8 mm)	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature - Desiccant Dryer	80 - 100	°C	
Drying Time - Desiccant Dryer	4.0 - 5.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	250	°C	
Middle Temperature	260	°C	
Front Temperature	265	°C	
Nozzle Temperature	270	°C	
Mold Temperature	60 - 80	°C	

Recommended distributors for this material

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