

KOPLA PA66 KDE1020

Polyamide 66

KOPLA Co., Ltd.

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Technical Data

Product Description

KOPLA PA66 KDE1020 is a Polyamide 66 (Nylon 66) material. It is available in Asia Pacific.

Important attributes of KOPLA PA66 KDE1020 are:

- Flame Rated
- Impact Modified

Typical applications include:

- Automotive
- Plumbing/Piping/Potable Water
- Safety Equipment

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Search for UL Yellow Card	• KOPLA Co., Ltd. • KOPLA PA66
Availability	• Asia Pacific
Additive	• Impact Modifier
Features	• Impact Modified
Uses	• Automotive Exterior Parts • Piping • Automotive Under the Hood • Safety Helmets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	1.07	1.07 g/cm ³	ASTM D792
Molding Shrinkage - Flow (0.125 in (3.18 mm))	0.019 to 0.030 in/in	1.9 to 3.0 %	ASTM D955
Water Absorption (73°F (23°C), 24 hr)	1.2 %	1.2 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, 73°F (23°C))	7110 psi	49.0 MPa	ASTM D638
Tensile Elongation (Break, 73°F (23°C))	80 %	80 %	ASTM D638
Flexural Modulus (73°F (23°C))	256000 psi	1770 MPa	ASTM D790
Flexural Strength (73°F (23°C))	9390 psi	64.7 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	No Break	No Break	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	110	110	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	392 °F	200 °C	
264 psi (1.8 MPa), Unannealed	145 °F	63.0 °C	
Melting Temperature	500 °F	260 °C	
CLTE - Flow	4.2E-5 in/in/°F	7.5E-5 cm/cm/°C	ASTM D696
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Volume Resistivity	1.0E+15 ohm·cm	1.0E+15 ohm·cm	ASTM D257
Dielectric Strength	610 V/mil	24 kV/mm	ASTM D149
Dielectric Constant (1 MHz)	3.20	3.20	ASTM D150
Dissipation Factor (1 MHz)	0.020	0.020	ASTM D150
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	HB	UL 94



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Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

