

Ultramid® A 3X2G5 (Cond)

Polyamide 66

BASF Corporation

Product Description

Ultramid A3X2G5 is a 25% glass fiber reinforced injection molding PA66 grade with improved flame retardance and enhanced long-term performance. Flame retardant based on red phosphorus; outstanding mechanical and electrical properties.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 25% Filler by Weight
Additive	• Flame Retardant • Mold Release
Features	• Flame Retardant • Good Stability • Oil Resistant • Good Electrical Properties • Halogen Free
Uses	• Electrical Parts • Electrical/Electronic Applications
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Multi-Point Data	• Creep Modulus vs. Time (ISO 11403-1) • Isothermal Stress vs. Strain (ISO 11403-1) • Isochronous Stress vs. Strain (ISO 11403-1) • Secant Modulus vs. Strain (ISO 11403-1)

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	6000	MPa	ISO 527-2 ²
Tensile Stress (Break)	100	MPa	ISO 527-2 ²
Tensile Strain (Break)	4.5	%	ISO 527-2 ²

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	17.0	kJ/m ²	ISO 179/1eA ²
Charpy Unnotched Impact Strength			ISO 179
-30°C	65	kJ/m ²	
23°C	70	kJ/m ²	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ³	1.0E+10	ohms	ASTM D257
Volume Resistivity (1.50 mm)	1.0E+10	ohm·cm	ASTM D257

Notes

¹ Typical properties: these are not to be construed as specifications.

² Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

³ 1.5 mm

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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