

# MAJORIS FD905U

Polypropylene

AD majoris

## Message:

FD905U is a halogen free flame retardant compound with UL 94 VO classification, intended for injection moulding. The product is available in natural (FD905U) but other colours can be provided on request.  
In addition to having an extremely low level of toxicity and low smoke in the case of a fire FD905U provides an excellent balance of high impact strength and rigidity.

### APPLICATIONS

FD905U is intended for the injection moulding of electrical component such as:

Electrical appliance components

Sockets

Junction boxes

Switches and connector housings

General Information			
Additive	Flame retardancy		
Features	Low smoke		
	Low toxicity		
	Rigidity, high		
	Impact resistance, high		
	Recyclable materials		
	Halogen-free		
	Flame retardancy		
Uses	Electrical components		
	Electrical housing		
	Home appliance components		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	16.0	MPa	ISO 527-2/50
Tensile Strain (Break)	1.0	%	ISO 527-2/50
Flexural Modulus <sup>1</sup>	3920	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	6.0	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	112	°C	ISO 75-2/B
Ball Pressure Test (125°C)	Pass		UL 746
Thermal Conductivity (35°C)	0.62	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.3E+18	ohms·cm	JIS K6911
Dielectric Constant	2.65		JIS K6911
Arc Resistance	192	sec	ASTM D495
Comparative Tracking Index	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	V-0		UL 94
Glow Wire Ignition Temperature (2.00 mm, 30 sec)	850	°C	IEC 60695-2-13
Oxygen Index	29	%	ISO 4589-2
Injection	Nominal Value	Unit	
Processing (Melt) Temp	210 - 240	°C	
Mold Temperature	50.0 - 60.0	°C	
Injection Rate	Moderate		
Injection instructions			
Holding pressure: 50 to 70% of the injection pressure			
NOTE			
1.	2.0 mm/min		

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