

MAJORIS DFR101 - 8229

Polypropylene

AD majoris

Message:

DFR101 - 8229 is a low halogen flame retardant compound black UL 94 V2 classification, intended for injection moulding. The product is available in natural (DFR101) but other colours can be supplied on request.

DFR101 - 8229 produces very low level of toxicity and low smoke density in the case of a fire.

APPLICATIONS

DFR101 - 8229 is intended for the injection moulding of electrical component such as:

Sockets

Junction boxes

Switches and connector housings

General Information			
Additive	Flame retardancy		
Features	Low Halogen Content		
	Low smoke		
	Low toxicity		
	Recyclable materials		
	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Electrical housing		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ISO 1133
Molding Shrinkage	1.4	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	31.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 200	%	ISO 527-2/50
Flexural Modulus ¹	1600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179

Notched Izod Impact (23°C)	4.5	kJ/m ²	ISO 180
Unnotched Izod Impact Strength (23°C)	No Break		ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	110	°C	ISO 75-2/B
1.8 MPa, not annealed	67.0	°C	ISO 75-2/A
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+13	ohms	
Dielectric Strength	16	kV/mm	IEC 60243-1
Comparative Tracking Index	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-2		UL 94
3.20 mm	V-2		UL 94
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Oxygen Index	27	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	220 - 250	°C	
Mold Temperature	30.0 - 50.0	°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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