

MAJORIS DFR210

Polypropylene
AD majoris

Message:

DFR210 is a halogen free flame retardant compound with glass fiber reinforced UL 94 VO , intended for injection moulding. The product is available in natural but other colours can be provided on request
DFR210 is especially designed for technical parts. In addition to having good flame retardant properties this product has an extremely low level of toxicity in case of fire.
DFR210 is mainly intended for the injection moulding of electrical components (conform 2002/95/EC, RoHS directive).

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Additive	Flame retardancy		
Features	Low toxicity		
	Recyclable materials		
	Halogen-free		
	Flame retardancy		
Uses	Electrical components		
RoHS Compliance	RoHS compliance		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage (2.00 mm)	0.74	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4800	MPa	ISO 527-2/1
Tensile Stress (Yield)	70.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.0	%	ISO 527-2/50
Flexural Modulus ¹	4200	MPa	ISO 178
Flexural Stress	112	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	36	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	160	°C	ISO 75-2/B

1.8 MPa, not annealed	140	°C	ISO 75-2/A
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-0		UL 94
3.20 mm	V-0		UL 94
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	825	°C	IEC 60695-2-13
Oxygen Index			ISO 4589-2
-- ²	31	%	ISO 4589-2
-- ³	35	%	ISO 4589-2
Injection	Nominal Value	Unit	
Processing (Melt) Temp	200 - 220	°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		
2.	1.6 mm		
3.	3.2 mm		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

