

MAJORIS EC401 - 8229

Polypropylene

AD majoris

Message:

EC401 - 8229 is a black, 40% mineral filled polypropylene compound intended for injection moulding.

The product is available in natural (EC401) and black (EC401 - 8229) but other colours can be supplied on request.

EC401 - 8229 is intended for component, which require good surface quality and high heat stabilised properties, rigidity, low shrinkage and high dimensional stability.

APPLICATIONS

Electrical appliances

Household articles

Technical components

General Information			
Filler / Reinforcement	Mineral filler, 40% filler by weight		
Additive	heat stabilizer		
Features	Good dimensional stability		
	Rigidity, high		
	Recyclable materials		
	Heat resistance, high		
	Thermal Stability		
	Low shrinkage		
	Excellent appearance		
Uses	Electrical/Electronic Applications		
	Electrical appliances		
	Household goods		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ISO 1133
Molding Shrinkage	0.80 - 1.1	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2600	MPa	ISO 527-2/1
Tensile Stress (Yield)	23.0	MPa	ISO 527-2/50
Flexural Modulus ¹	2500	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	37	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	113	°C	ISO 75-2/B
1.8 MPa, not annealed	62.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	154	°C	ISO 306/A
--	100	°C	ISO 306/B
CLTE - Flow	5.5E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	220 - 260	°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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