

MAJORIS DT401

Polypropylene

AD majoris

Message:

DT401 is a 40% mineral filled polypropylene compound intended for injection moulding.

The product is available in both natural (DT401) and black (DT401 - 8229) but other colours can be provided on request.

DT401 has a medium flow rate, very good processability and excellent mechanical properties.

DT401 has been developed especially for application requiring excellent long- term heat stability. This product is food contact.

APPLICATIONS

Household appliances

Food packaging

Products requiring high rigidity, high dimensional stability, low shrinkage and good long term heat resistance, high heat distortion temperature can suitably be made from DT401.

General Information			
Filler / Reinforcement	Mineral filler, 40% filler by weight		
Additive	heat stabilizer		
Features	Good dimensional stability		
	Rigidity, high		
	Recyclable materials		
	Workability, good		
	Medium liquidity		
	Heat resistance, high		
	Thermal Stability		
	Thermal stability, good		
	Compliance of Food Exposure		
	Low shrinkage		
Uses	Electrical appliances		
	Food packaging		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	6.0	g/10 min	ISO 1133
230°C/5.0 kg	27	g/10 min	ISO 1133
Molding Shrinkage	0.90	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3800	MPa	ISO 527-2/1
Tensile Stress (Yield)	32.0	MPa	ISO 527-2/5
Tensile Strain (Yield)	7.0	%	ISO 527-2/5
Flexural Modulus ¹	3900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	1.2	kJ/m ²	ISO 179/1eA
23°C	3.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	20	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	132	°C	ISO 75-2/B
1.8 MPa, not annealed	81.0	°C	ISO 75-2/A
Vicat Softening Temperature	100	°C	ISO 306/B
Thermal Stability (150°C)	> 700.0	hr	
Emission	29.0	µgC/g	VDA 277
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	210 - 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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