MAJORIS DT400 - 8229

Polypropylene

AD majoris

Message:

DT400 - 8229 is a 40% mineral filled polypropylene compound intended for injection moulding.
The product is available in both natural (DT400) and black (DT400 - 8229) but other colours can be provided on request.
DT400 - 8229 has a medium flow rate, very good processability and excellent mechanical properties.
DT400 - 8229 has been developed especially for the automotive under the bonnet application requiring excellent long- term heat stability and electrical industry.
APPLICATIONS
Fuse and connector boxes
Miscellaneous electrical components
Household appliances
Automotive climate control parts
Air conditioning parts
Heater housings
Products requiring high rigidity, high dimensional stability, low shrinkage and good long term heat resistance, high heat distortion temperature can suitably be made from DT400.

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 Low shrinkage
Uses	Electrical components Electrical appliances Parts under the hood of a car Application in Automobile Field Shell
Appearance	Black Available colors Natural color
Forms	Particle
Processing Method	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm³	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/m²	ISO 179/1eA
23°C	3.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	20	kJ/m²	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/B50
Thermal stability (150°C)	> 700.0	hr	
Fogging			DIN 75201
100°C/16h	3.5E-4	g	DIN 75201
100°C/3h	95	%	DIN 75201
Emission	29.0	µgC/g	VDA 277
Flammability	**Nominal Value**	**Unit**	**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		

Recommended distributors for this material

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