

MAJORIS DT422 - 8229

Polypropylene

AD majoris

Message:

DT422 - 8229 is a black colour, 40% mineral filled polypropylene compound intended for injection moulding.
The product is available in black DT422 - 8229 but other colours can be provided on request.
DT422 - 8229 is intended for components which require good long term heat resistance, it has a high heat distortion temperature, good rigidity, low shrinkage, noise and vibration absorption and good dimensional stability.

- APPLICATIONS
- Dashboard items
 - Automotive interior trims
 - Fuse and connector boxes
 - Miscellaneous electrical components
 - Technical components

General Information			
Filler / Reinforcement	Mineral filler, 40% filler by weight		
Additive	heat stabilizer		
Features	Good dimensional stability		
	Shock absorption		
	Noise reduction		
	Recyclable materials		
	Heat resistance, high		
	Thermal Stability		
	Low shrinkage		
	Medium hardness		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Car interior equipment		
Appearance	Black		
	Available colors		
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)			ISO 1133
230°C/2.16 kg	5.5	g/10 min	ISO 1133
230°C/5.0 kg	22	g/10 min	ISO 1133
Molding Shrinkage	0.50 - 0.70	%	
Hardness	Nominal Value	Unit	Test Method

Ball Indentation Hardness (H 358/30)	88.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	33.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	2.5	%	ISO 527-2/50
Fracture	6.0	%	ISO 527-2/50
Flexural Modulus ¹	4800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	1.4	kJ/m ²	ISO 179/1eA
23°C	1.6	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	11	kJ/m ²	ISO 179/1eU
23°C	21	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	2.5	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	144	°C	ISO 75-2/B
1.8 MPa, not annealed	86.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	158	°C	ISO 306/A
--	97.0	°C	ISO 306/B
CLTE - Flow	5.5E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	750	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	220 - 270	°C	
Mold Temperature	30.0 - 60.0	°C	
Injection Rate	Slow-Moderate		
Injection instructions			
Holding pressure: 50 to 70% of the injection pressure			
NOTE			
1.	2.0 mm/min		

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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

