MAJORIS ET311 - 8229

Polypropylene

AD majoris

Message:

ET311 - 8229 is a mineral filled polypropylene compound intended for injection moulding.
ET311 - 8229 has been developed especially for the automotive under hood applications requiring excellent long-term heat stability. The good flowability of ET311 - 8229 makes it very easy to process for complicated parts with long flow paths. The product is available in both black (ET311 - 8229) and natural (ET311) but other colours can be provided on request.
Products requiring good long-term heat resistance, very heat distortion temperature, excellent rigidity, low shrinkage and high dimensional stability can suitably be made from ET311 - 8229.
APPLICATIONS
Fuse and connector boxes
Miscellaneous electrical components
Heater housings
Automotive climate control parts
Air conditioning parts
Air ducts
Air filter
Heater housings

General Information	
Filler / Reinforcement	Mineral filler
Additive	heat stabilizer
Features	Good dimensional stability
	Rigidity, high
	Recyclable materials
	Workability, good
	Good liquidity
	Heat resistance, high
	Thermal Stability
	Thermal stability, good
	Low shrinkage
Uses	Electrical components
	Filter
	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	1.20	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	11	g/10 min	ISO 1133
230°C/5.0 kg	51	g/10 min	ISO 1133
Molding Shrinkage	0.90	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	79.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress (Yield)	31.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	3.0	%	ISO 527-2/50
Flexural Modulus [1]	3500	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			ISO 179/1eU
-20°C	11	kJ/m²	ISO 179/1eU
23°C	26	kJ/m²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	131	°C	ISO 75-2/B
1.8 MPa, not annealed	80.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	149	°C	ISO 306/A
--	92.0	°C	ISO 306/B
Thermal stability (150°C)	> 700.0	hr	
Fogging			DIN 75201
100°C/16h	2.0E-4	g	DIN 75201
100°C/3h	96	%	DIN 75201
Emission	22.0	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	220 - 270	°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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