

MAJORIS ET212 - 8229

Polypropylene

AD majoris

Message:

ET212 - 8229 is a mineral filled polypropylene compound intended for injection moulding. The product is available in natural (ET212) but other colours can be provided on request.

ET212 - 8229 has a very easy flowing and excellent mechanical properties.

APPLICATIONS

Products requiring good long term heat resistance, very high heat distortion temperature, excellent rigidity, low shrinkage and high dimensional stability such as :

Automotive climate control parts

Air conditioning parts

Air ducts

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Features	Good dimensional stability		
	Rigidity, high		
	Recyclable materials		
	Good liquidity		
	Heat resistance, high		
	Low shrinkage		
Uses	Application in Automobile Field		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
230°C/2.16 kg	12	g/10 min	ISO 1133
230°C/5.0 kg	60	g/10 min	ISO 1133
Molding Shrinkage	1.1	%	
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)	31.0	MPa	ISO 527-2/50
Tensile Strain (Break)	38	%	ISO 527-2/50
Flexural Modulus ¹	2600	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-20°C	1.1	kJ/m ²	ISO 179/1eA
23°C	2.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	14	kJ/m ²	ISO 179/1eU
23°C	32	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	124	°C	ISO 75-2/B
1.8 MPa, not annealed	70.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	155	°C	ISO 306/A
--	99.0	°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	97	%	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 - 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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