

MAJORIS CE277 - 8229

Polypropylene

AD majoris

Message:

CE277 - 8229 is a 20% mineral reinforced, elastomer modified compound polypropylene, intended for injection moulding.

The product is available in natural (CE277) and black (CE277 - 8229) but other colours can be supplied on request.

CE277 - 8229 has a controlled thermal expansion, and provides a good impact/stiffness balance. The product is UV stabilised.

CE277 - 8229 gives excellent paint ability by use of adhesive primers alone, or by use of other pre-treatments.

APPLICATIONS

Automotive exterior:

Bumper covers, spoilers and exterior

Parts where controlled thermal expansion is needed

Painted parts

Electrical parts

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Additive	Impact modifier		
	UV stabilizer		
Features	Impact modification		
	Good UV resistance		
	Recyclable materials		
	Sprayable		
Uses	Electrical components		
	Automotive exterior parts		
	Car exterior decoration		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.5	g/10 min	ISO 1133
Molding Shrinkage	0.70 - 1.0	%	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	57		ISO 868
Mechanical	Nominal Value	Unit	Test Method

Tensile Stress (Yield)	16.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.0	%	ISO 527-2/50
Flexural Modulus ¹	1350	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	5.8	kJ/m ²	ISO 179/1eA
-20°C	9.4	kJ/m ²	ISO 179/1eA
0°C	40	kJ/m ²	ISO 179/1eA
23°C	No Break		ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	94.0	°C	ISO 75-2/B
1.8 MPa, not annealed	56.0	°C	ISO 75-2/A
Vicat Softening Temperature	129	°C	ISO 306/A
CLTE - Flow (-30 to 70°C)	4.0E-5 - 6.0E-5	cm/cm/°C	
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	750	°C	IEC 60695-2-12
Additional Information			
Paint Adhesion, Peel-test: >20 N/15mm			
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	230 - 260	°C	
Mold Temperature	30.0 - 50.0	°C	
Injection Rate	Slow-Moderate		
Injection instructions			
Holding pressure: 50 to 70% of the injection pressureScrew RPM: slow to medium speed			
NOTE			
1.	2.0 mm/min		

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