

MAJORIS DW444E/8

High Density Polyethylene

AD majoris

Message:

DW444E/8 is a 40% chemically coupled mineral fibre reinforced polyethylene high density compound (pellets length ~8 mm) intended for injection moulding.

APPLICATIONS

DW444E/8 is intended for components that require good impact strength, rigidity and dimensional stability.

Suitable applications are:

Electrical tool and appliance components

Miscellaneous automotive technical items

Household articles

General Information			
Filler / Reinforcement	Mineral filler, 40% filler by weight		
Features	Good dimensional stability		
	High density		
	Chemical coupling		
	Impact resistance, good		
	Recyclable materials		
Uses	Medium hardness		
	Electrical/Electronic Applications		
	Power/other tools		
	Home appliance components		
	Household goods		
Forms	Application in Automobile Field		
	Particle		
	Injection molding		
	Processing Method		
	Physical		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	5.0	g/10 min	ISO 1133
Molding Shrinkage	0.90	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	5500	MPa	ISO 527-2/1
Tensile Stress (Yield)	38.0	MPa	ISO 527-2/50
Tensile Strain (Break)	2.6	%	ISO 527-2
Flexural Modulus ¹	4540	MPa	ISO 178
Flexural Stress	67.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.6	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength (23°C)	21	kJ/m ²	ISO 179/1eU
Flammability	Nominal Value	Test Method	
Flame Rating	HB	UL 94	
Injection	Nominal Value	Unit	
Rear Temperature	180 - 200	°C	
Processing (Melt) Temp	190 - 230	°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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