

# MALAT 37NE020

Polybutylene Terephthalate

AD majoris

## Message:

MALAT 37NE020 is a polybutylene terephthalate, impact modified, intended for injection moulding. The product is available in natural but other colours can be provided on request  
It combines high mechanical, thermal and electrical properties with excellent chemical resistance.

### APPLICATIONS

MALAT 37NE020 is intended for the injection moulding of electrical components and automotive applications including interior, exterior and electrical and mechanical systems, such as:  
Electrical appliance components  
Switches and connector housings  
Dashboard components  
Door handles and pillar trim

General Information			
Additive	Impact modifier		
Features	Impact modification		
	Recyclable materials		
	Good electrical performance		
	Good chemical resistance		
Uses	Handle		
	Electrical components		
	Electrical housing		
	Home appliance components		
	Automotive Electronics		
	Car interior parts		
	Automotive exterior parts		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	35.0	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage - Flow <sup>1</sup> (2.00 mm)	1.5 - 2.0	%	
Water Absorption (23°C, 24 hr)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2280	MPa	ISO 527-2

Tensile Stress (Break)	50.0	MPa	ISO 527-2
Flexural Modulus	2100	MPa	ISO 178
Flexural Stress <sup>2</sup>	73.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	14	kJ/m <sup>2</sup>	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	225	°C	ISO 3146
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Oxygen Index	22	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	100	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	245 - 260	°C	
Mold Temperature	80.0 - 120	°C	
Injection Rate	Fast		
Injection instructions			
Back pressure: Moderate			
NOTE			
1.	Plate 100x100x2 mm		
2.	at Break		

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#### Recommended distributors for this material

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