

MAJORIS DE281 - 8045

Polypropylene

AD majoris

Message:

DE281 - 8045 is a 20% mineral filled, polypropylene compound, elastomer modified intended for injection moulding.

DE281 - 8045 is a material with excellent impact/stiffness ratio. Thanks to its outstanding low thermal expansion this material is suitable to mould parts requiring a low change of dimensions over a broad temperature range with good surface aesthetics. It shows an excellent performance in the steam jet test.

DE281 - 8045 is optimised to give high quality parts with the best production efficiency in combination with a broad processing window. To achieve a sufficient level of adhesion for painting or gluing, the use of flaming or other pre-treatment is necessary.

The product is available in natural and black (DE281 - 8045) but other colours can be provided on request.

APPLICATION

Automotive exterior applications:

Rocker panels

Exterior trims

General Information			
Filler / Reinforcement	Mineral filler, 20% filler by weight		
Additive	Impact modifier		
Features	Impact modification		
	Recyclable materials		
	Excellent appearance		
Uses	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	1.02	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage	0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	16.0	MPa	ISO 527-2/50
Flexural Modulus ¹	1700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m ²	ISO 179/1eA
-20°C	10	kJ/m ²	ISO 179/1eA

23°C	40	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (-20°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	98.0	°C	ISO 75-2/B
Vicat Softening Temperature			
--	118	°C	ISO 306/A
--	39.0	°C	ISO 306/B
CLTE - Flow (23 to 80°C)	5.0E-5	cm/cm/°C	DIN 53752
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
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	Slow-Moderate		
Injection instructions			
Holding pressure: 50 to 70% of the injection pressureScrew RPM: Slow to medium			
NOTE			
1.	2.0 mm/min		

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