

FORMULA P ELAN XP 515

Polypropylene
Putsch Kunststoffe GmbH

Message:

Polypropylene reinforced with nano-clay. This material has very good scratch-resistance and good impact-strength. Due to high MFI it is easy to mold. This type is designed for automotive interior/exterior trim.

General Information	
Filler / Reinforcement	Clay nanofiller
Features	Impact resistance, good
	Good formability
	High liquidity
	Scratch resistance
Uses	Application in Automobile Field
	Car interior equipment
	Car exterior decoration

Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0	g/10 min	ISO 1133
Molding Shrinkage	0.80 - 1.1	%	Internal method

Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	22.0	MPa	ISO 527-2
Fracture	18.0	MPa	ISO 527-2
Tensile Strain (Break)	100	%	ISO 527-2
Flexural Modulus	1200	MPa	ISO 178
Flexural Stress (3.5% Strain)	49.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179
Notched Izod Impact			ISO 180
-20°C	4.5	kJ/m ²	ISO 180
23°C	10	kJ/m ²	ISO 180

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	60.0	°C	ISO 306/B

Additional Information		
Tensile Strength, ISO 527: 20 MPa		
Injection	Nominal Value	Unit
Drying Temperature	80.0	°C

Drying Time	2.0	hr
Processing (Melt) Temp	240 - 255	°C
Mold Temperature	20.0 - 40.0	°C

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Recommended distributors for this material

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