

FORMULA P ELAN XP 422

Polypropylene + Styrenic

Putsch Kunststoffe GmbH

Message:

PP/PS-Blend. This material has very good scratch-resistance. This type has the same shrinkage like PP with 20% mineral with a 10% lower density. Low warpage and no wear on mold surface. New: high impact at -20°C.

General Information			
Features	Low warpage		
	Impact resistance, high		
	Low temperature impact resistance		
	Scratch resistance		
	Good wear resistance		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage	0.90 - 1.2	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	22.0	MPa	ISO 527-2
Fracture	19.0	MPa	ISO 527-2
Tensile Strain (Break)	80	%	ISO 527-2
Flexural Modulus	1400	MPa	ISO 178
Flexural Stress (3.5% Strain)	42.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180
-20°C	4.0	kJ/m ²	ISO 180
23°C	15	kJ/m ²	ISO 180
Aging	Nominal Value	Unit	
Heat Aging (150°C)	16.7	day	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	67.0	°C	ISO 306/B
Additional Information			
Tensile Strength, ISO 527: 22 MPa			
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	250 - 260	°C	
Mold Temperature	30.0 - 50.0	°C	

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