*IDES* Prospector

## Product Description

## Characteristics: Standard flow, minimal mould

Application: Buttons, electronic parts, automotive parts, household, bearing.

	is, automotive parts, nousenoid, bearing		
Also known as FORMOCON eneral			
Material Status	Commercial: Active		
Availability	Asia Pacific	Europe	
Features	Good Flow	Europe	
Uses	<ul><li>Automotive Applications</li><li>Bearings</li></ul>	<ul> <li>Buttons</li> <li>Electrical/Electronic Applications</li> </ul>	Household Goods
Forms	Pellets		
nysical		Nominal Value Unit	Test Method
Specific Gravity		1.41 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)		9.0 g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow: 3.00 mm		1.8 %	
Across Flow: 3.00 mm		2.2 %	
Water Absorption (Equilibrium, 23°C, 69%RH)		0.22 %	ASTM D570
echanical		Nominal Value Unit	Test Method
Tensile Strength (Yield)		60.8 MPa	ASTM D638
Tensile Elongation (Break)		60 %	ASTM D638
Flexural Modulus		2550 MPa	ASTM D790
Flexural Strength		93.2 MPa	ASTM D790
Compressive Strength			ASTM D695
1% Strain		31.4 MPa	
10% Strain		108 MPa	
npact		Nominal Value Unit	Test Method
Notched Izod Impact			ASTM D256
23°C		64 J/m	
		6.4 kJ/m²	
ardness		Nominal Value Unit	Test Method
Rockwell Hardness (M-Scale)		80	ASTM D785
nermal		Nominal Value Unit	Test Method
Deflection Temperature Under Load	d		ASTM D648
0.45 MPa, Unannealed		158 °C	
1.8 MPa, Unannealed		110 °C	
Vicat Softening Temperature		162 °C	ASTM D1525
Melting Temperature		165 °C	DSC
CLTE - Flow		0.000085 cm/cm/°C	ASTM D696
lectrical		Nominal Value Unit	Test Method
Surface Resistivity <sup>2</sup>		1.0E+16 ohms	ASTM D257
Volume Resistivity <sup>2</sup> (23°C)		1.0E+14 ohm·cm	ASTM D257
lammability		Nominal Value Unit	Test Method
Flame Rating - UL		HB	UL 94

## Notes

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<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 50%RH

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