

Technical Datasheet

Material Type	PP	Trademark	Expond®	Grade Name	A422-G20
Feature					
Material Standard					
Availability					
Processing method					
Appearance					
Applications					

General Properties

No.	Properties	Unit	Typical Value	Method	Test condition
1	Filler Content	%	20	ISO 3451-1, -4	
2	Density	g/mL	1.05	ISO 1183	23 °C
3	Melt Flow Rate	g/10min	10	ISO 1133	230°Cx2.16kg
4	Tensile Strength	MPa	70	ISO 527	50 mm/mm
5	Tensile Modulus	MPa	4,500	ISO 527	1 mm/mm
6	Flexural Modulus	MPa	3,500	ISO 178	2 mm/mm
7	Notched Impact Strength	kJ/m ²	7	ISO 180	23 °C
8	Notched Impact Strength	kJ/m ²	5	ISO 180	-40°C
9	Heat Deflection Temperature	°C	130	ISO 75	1.8 MPa
10	Heat Deflection Temperature	°C	150	ISO 75	0.45 MPa
11	Material Shrinkage	%	0.3-0.6	ISO 294	23 °C, 48h

Processing Conditions

Drying condition	100 °C, 2-3 h
Molding Temp.	200 - 230 °C (F), 190 - 210 °C (M), 200 - 220 °C (B)
Mold Temp.	70 - 90 °C
Screw Speed	30 - 50 rpm
Injection Pressure	40 - 80 MPa
Back Pressure	0.3 – 0.7 MPa

Notes: This technical data in the product brochures are typical test results for reference, and should not be defined as minimum value.