

Technical Data

Product Description

4TECH 9KF20400 is a Standard Flow UV Stabilised PBT / Polycarbonate Blend

General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Literature ¹	<ul style="list-style-type: none"> Processing (English) Technical Datasheet (English)
Search for UL Yellow Card	<ul style="list-style-type: none"> 4Plas
Availability	<ul style="list-style-type: none"> Europe
Additive	<ul style="list-style-type: none"> UV Stabilizer
Processing Method	<ul style="list-style-type: none"> Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.21 g/cm ³	ISO 1183
Water Absorption ³ (Equilibrium, 23°C, 50% RH)	0.20 %	ISO 62
Moisture Content	< 1000 ppm	ISO 960

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus (23°C)	2500 MPa	ISO 527-1/5
Tensile Stress (Break, 23°C)	65.0 MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	75 %	ISO 527-2/5

Impact	Nominal Value Unit	Test Method
Charpy Unnotched Impact Strength		ISO 179/1eU
-30°C	No Break	
23°C	No Break	
Notched Izod Impact Strength		ISO 180/1A
-30°C	9.0 kJ/m ²	
23°C	10 kJ/m ²	

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	110 °C	ISO 75-2/B
1.8 MPa, Unannealed	85.0 °C	ISO 75-2/A
Melting Temperature ⁴	120 °C	ISO 11357

Electrical	Nominal Value Unit	Test Method
Surface Resistivity	1.0E+15 ohms	IEC 60093
Volume Resistivity	1.0E+13 ohms·cm	IEC 60093

Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.6 mm	HB	
3.2 mm	HB	



4TECH® 9KF20400

Polycarbonate + PBT

4Plas

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Injection	Nominal Value Unit
Drying Temperature	120 °C
Drying Time	2.0 to 4.0 hr
Suggested Max Moisture	0.020 %
Processing (Melt) Temp	230 to 270 °C
Mold Temperature	50 to 110 °C
Injection Rate	Moderate-Fast
Holding Pressure	40.0 to 80.0 MPa
Screw Speed	300 rpm

Injection Notes

Feed Throat Temperature: 50 - 70 °C

Back Pressure: Low

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 24 Hrs

⁴ 10 K/min

