

Preperm™ L335-2

Polyphenylene Ether

Key Characteristics

Product Description

PREPERM is a special compound based on proprietary technology. It offers stable dielectric constant over wide range of frequencies and temperature ranges with low losses

General

Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific	• Europe	• North America
Appearance	• White		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density	1.35 g/cm ³	1.35 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/5.0 kg)	54 g/10 min	54 g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.80 %	0.40 to 0.80 %	ISO 294-4
Water Absorption (24 hr, 73°F (23°C))	0.20 %	0.20 %	ISO 62
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress (Yield)	7510 psi	51.8 MPa	ISO 527-2
Tensile Stress (Break, 73°F (23°C))	6240 psi	43.0 MPa	ISO 527-2
Tensile Strain (Yield)	4.3 %	4.3 %	ISO 527-2
Tensile Strain (Break)	29 %	29 %	ISO 527-2
Flexural Modulus	309000 psi	2130 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact Strength (73°F (23°C))	4.3 ft·lb/in ²	9.0 kJ/m ²	ISO 180
Unnotched Izod Impact Strength (73°F (23°C))	No Break	No Break	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	279 °F	137 °C	ISO 75-2/B
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	232 °F	111 °C	ISO 75-2/A
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Dielectric Constant ² (1.00 GHz)	3.35	3.35	Instrument
Dissipation Factor ³ (1.00 GHz)	5.0E-4	5.0E-4	Instrument

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	536 to 590 °F	280 to 310 °C
Mold Temperature	176 to 266 °F	80 to 130 °C
Injection Notes		
Injection Pressure: Moderate		
Injection Speed: Moderate		

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Extrusion Notes

Material Temperature: 260-300°C

Die Temperature: 260-300°C

Tool/Roll Temperature: 60-120°C

Notes

¹ Typical values are not to be construed as specifications.² RF Analyzer- AGILENT E 4991A³ RF Analyzer-AGILENT E 4991A

Dissipation Factor: This is also known as Loss tangent

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