

Application Specific Information

UPM ForMi GP 40, GP 50



UPM ForMi is suitable raw material for different applications. In addition to basic physical and mechanical properties, UPM ForMi materials have been analyzed for several other properties which are of interest, for example, in automotive and in electrical and electronic (E&E) applications.

Automotive applications	Property	Test method	GP 40	GP 50
	Flammability, mm/min	ISO 3795	30	20
Scratch resistance	*	Conform	Conform	
Odour, trim materials	*	Conform	Conform	
Formaldehyde content	*	<LQ ^a	<LQ ^a	
Total carbon emission, µgC/g	*	10	30	

*Measured according to European car manufacturer's standards in ISO 17025 accredited European laboratory.

^a Below quantification limit

Electrical and electronic (E&E) applications	Property	Test method	GP 40	GP 50
	Surface resistivity, Ω	IEC 60093	8,4E+14	8,2E+14
Volume resistivity, Ωm	IEC 60093	3E+13	3,1E+13	
Comparative tracking index, V	IEC 60112	600	600	

Other	Property	Test method	GP 40	GP 50
	Melt flow rate ^b , g/10min	ISO 1133	5,8	4,1
Ball indentation hardness, N/mm ²	ISO 2039	81	88	
Heat deflection temperature ^c , °C	ISO 75	110	119	
CLTE ^d , transverse, ppm/K	ISO 11359-1/2	118	79	
CLTE, longitudinal, ppm/K	ISO 11359-1/2	51	76	
Water absorption, immersion 24h, %	ISO 62	0,66	0,90	

^b 200°C, 5kg

^c HDT A, 1,8 MPa

^d Coefficient of linear thermal expansion