

Premix Thermoplastics PREPERM

Category : Polymer , Thermoplastic

Material Notes:

PREPERM product family offers tailored dielectric properties for specific application. This will give new design possibilities to manufacturing of high frequency appliances with low loss materials or small footprint antenna designs with high dielectric constant. Compared to commonly used antenna frame materials PREPERM offers ten times lower dissipation factor. Maximizing antenna gain. Achieving High speeds through excellent dielectric properties: Today's high speed connectors demands high performance materials. PREPERM is the solution for high speed connectors which require low dissipation factor materials with low dielectric constant. PREPERM exhibits also excellent thermal and dimensional stability. PREPERM for high speed applications: Very Low dissipation factor Low dielectric constant Very low mold shrinkage HDT 195 °C Very low water absorption Halogen free RoHS compliance Excellent impact strength Miniaturization through controlled dielectric constant: Today's mobile phones can contain more than 10 different antennas. The challenge to fit all these into a small compartment without losing their effect is immense. When choosing PREPERM compound instead of normal antenna frame plastic, the antennas can be miniaturized without losing the antennas' performance. Due to excellent combination of high dielectric constant and very low tan δ the performance of a similar sized antenna could be remarkably improved compared to a traditional antenna. Design and Processing: Standard thermoplastic processing methods such as injection moulding and extrusion can be used. Complex shapes and sizes are easily produced. Mass-production friendly. Recyclable and RoHS compliant. PREPERM controlled dielectric grades are optimized according to customer request. PREPERM technology offers design possibilities according to desired dielectric constant from 2.55 to 36 without increasing dissipation factor. Information from Premix OY

Order this product through the following link:

http://www.lookpolymers.com/polymer_Premix-Thermoplastics-PREPERM.php

Physical Properties	Metric	English	Comments
Water Absorption	0.20 %	0.20 %	
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.55	2.55	
	@Frequency 1.00e+9 - 1.00e+10 Hz	@Frequency 1.00e+9 - 1.00e+10 Hz	
Dissipation Factor	0.00050	0.00050	
	@Frequency 1.00e+9 - 1.00e+10 Hz	@Frequency 1.00e+9 - 1.00e+10 Hz	

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