

EPS R120

Expendable Polystyrene

Description

Flame Retardant

Application

Insulation Board, Sandwich Panel
Civil Engineering & Construction Materials

Properties	Test Condition	Test Method	Unit	Typical Value	
Physical					
Water Absorption		KS M 3808			
	15g/L		g/100cm ²	0.65	
	20g/L		g/100cm ²	0.35	
	25g/L		g/100cm ²	0.20	
Thermal Conductivity	30g/L		g/100cm ²	0.20	
		KS M 3808			
	15g/L		Kcal/m·hr·°C	0.034	
	20g/L		Kcal/m·hr·°C	0.031	
Mechanical	25g/L		Kcal/m·hr·°C	0.030	
	30g/L		Kcal/m·hr·°C	0.029	
	Mechanical				
	Impact Strength		KS M 3808		
15g/L			kg/cm ²	0.91	
20g/L			kg/cm ²	1.36	
25g/L			kg/cm ²	1.91	
Flexural Strength	30g/L		kg/cm ²	2.40	
		KS M 3808			
	15g/L		kg/cm ²	2.01	
	20g/L		kg/cm ²	3.06	
Thermal	25g/L		kg/cm ²	3.98	
	30g/L		kg/cm ²	4.96	
	Thermal				
	Flexural Strength		KS M 3808		
15g/L			sec.	1.0	
20g/L			sec.	0.7	
25g/L			sec.	0.8	
30g/L		sec.	0.8		

Note) Typical values are only for material selection purpose, and variation within normal tolerances are for various colors.

Values given should not be interpreted as specification and not be used for part or tool design.

All properties, except melt flow rate are measured on injection molulded specimens and after 48 hours storage at 23°C, 50% relative humidity.

Updated : 9-Nov-09

The information contained herein, including, but not limited to, data, statements and typical values, are given in good faith. LG Chem makes no warranty or guarantee, expressed or implied, (i) that the result described herein will be obtained under end - use conditions, or (ii) as to the effectiveness or safety of any design incorporating LG Chem materials, products, recommendations or advice. Further, any information contained herein shall not be construed as a part of legally binding offer. Especially, the typical values should be regarded as reference values only and not as binding minimum values. Each user bear full responsibility for making its own determination as to the suitability of LG Chem's materials, products, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating LG Chem material or products will be safe and suitable for use under end - use conditions. The data contained herein can be changed without notice as a result of the quality improvement of the products.