

# EPS R120

## Expendable Polystyrene

### Description

Flame Retardant

### Application

Insulation Board, Sandwich Panel  
Civil Engineering & Construction Materials

Properties	Test Condition	Test Method	Unit	Typical Value	
<b>Physical</b>					
Water Absorption		KS M 3808			
	15g/L		g/100cm <sup>2</sup>	0.65	
	20g/L		g/100cm <sup>2</sup>	0.35	
	25g/L		g/100cm <sup>2</sup>	0.20	
Thermal Conductivity	30g/L		g/100cm <sup>2</sup>	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	
	<b>Mechanical</b>				
	Impact Strength		KS M 3808		
15g/L			kg/cm <sup>2</sup>	0.91	
20g/L			kg/cm <sup>2</sup>	1.36	
25g/L			kg/cm <sup>2</sup>	1.91	
Flexural Strength	30g/L		kg/cm <sup>2</sup>	2.40	
		KS M 3808			
	15g/L		kg/cm <sup>2</sup>	2.01	
	20g/L		kg/cm <sup>2</sup>	3.06	
Thermal	25g/L		kg/cm <sup>2</sup>	3.98	
	30g/L		kg/cm <sup>2</sup>	4.96	
	<b>Thermal</b>				
	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 moulded specimens and after 48 hours storage at 23°C, 50% relative humidity.

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