

EPS R160

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	0.70
	20g/L		g/100cm ²	0.38
	25g/L		g/100cm ²	0.30
Thermal Conductivity	30g/L		g/100cm ²	0.30
		KS M 3808		
	15g/L		Kcal/m·hr·°C	0.035
	20g/L		Kcal/m·hr·°C	0.032
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	0.89
	20g/L		kg/cm ²	1.30
	25g/L		kg/cm ²	1.79
Flexural Strength	30g/L		kg/cm ²	2.34
		KS M 3808		
	15g/L		kg/cm ²	1.96
	20g/L		kg/cm ²	2.76
25g/L		kg/cm ²	3.69	
30g/L		kg/cm ²	4.40	
Thermal				
Flexural Strength		KS M 3808		
	15g/L		sec.	0.8
	20g/L		sec.	0.7
	25g/L		sec.	0.8
30g/L		sec.	0.6	

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 molded specimens and after 48 hours storage at 23°C, 50% relative humidity.