

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	
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	0.89	
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	
Thermal	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 moulded specimens and after 48 hours storage at 23°C, 50% relative humidity.

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