

Expandable Polystyrene SOLARPOL® Grades

Test Item	Unit	Remark	Frame Retardant from Korea Plant		
			F251	F351	F451

Bead Properties

Bead Size	mm	JIS Z 8801	0.85~1.295	0.68~0.85	0.50~0.68
Polystyrene Content	%	Polymer	93~94	93~94	93~94
Blowing agent Content	%	Pentane	6~7	6~7	6~7
MV (× 1,000)	-	Standard of Viscosity	240~260	240~260	240~260
Specific Gravity	-		1.03~1.05	1.03~1.05	1.03~1.05

Pre-Expansion Properties

Pre-Expansion Density (Max.)	kgf/cm ³	Hyundai Method	14	14	16
Blocking (Max.)	%	Hyundai Method	0.5	0.5	0.5

Foaming Product Properties

Water Absorption (Max.)	g/100cm ³		-	1.0	1.0	1.0
Compressive Strength (Min.)	kgf/cm ²	ASTM D 1621	0.5	0.5	0.5	

Flammability

UL Standard	Certified	6.0mm specimen	HF-1	HF-1	HF-1
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Note. The above data represents the general specification of SOLARPOL® EPS for customer's reference.

Declaration of Conformity for SOLARPOL[®] EPS, F Grades

HYUNDAI EP SOLARPOL is an expandable polystyrene(EPS) resin which contains a blowing agent. There are general purpose, fast cycle, flame retardant and environ-ment-friendly grades and also various grades, ranging from bead size 0.42 mm to 1.41 mm diameter.

The molded products of SOLARPOL EPS have out standing thermal insulating, moisture proofing, sound excluding and mechanical load bearing properties.

Especially, approval status of SOLARPOL EPS, F-251, F-351 & F-451 Grades as follows;

● **UL(Underwriters Laboratories Inc. in USA)**

- **Packing Parts(CCN:QMFZ2)**

· File No : E120540

- **Expanded polystyrene plastic boards, Insulation boards (CCN: BRYX2)**

· File No : R20811

● **SGS Testing Korea**

- **SOLARPOL EPS F grades comply with Restrict of Hazardous Substance in EU.**

(Not detected for cadmium, lead, mercury, hexavalent chrome, PBBs & PBDEs)

Otherwise, we promise to make sure that we contribute to produce both environment-friendly and human health product through the environment first management and continuous improvement activity.

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HYUNDAI EP

QA630-50331

HYUNDAI ENGINEERING PLASTICS

Certificate

SOLARPOL[®] EPS, F-251

Inspection	Unit	Test method	Spec.	Typical value
Bead Size(0.8 to 1.2 mm)	%	DP-WE-3301	Min. 95	98.5
Total Gas Content	wt%	DP-WE-3202	Min. 6.0	6.5
Moisture	Wt%	DP-WE-3201	Max. 1.0	0.2
Pre-Expansion Density	kg/m ³	DP-WE-3302	Max. 14	11
Flammability	sec	KS- M3808	Max. 3	1

1. SOLARPOL does not contain freon gases.

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