

Technical Data Sheet

Topadd® HI861/961

HI861/HI961 is a white powder or particle, insoluble in water and ethanol, soluble in trichloromethane, butanone, etc. The content of rubber is 60~65%, which is a highly effective impact modifier. When producing general-purpose ABS, only 23-28% of this product needs to be added to achieve the required performance.

Tech Spec

Item	HI861/HI961	Testing method
Appearance	White powder	--
Bulk Density,g/cm ³	0.20-0.40	GB/T 1636-2008
Volatile Matter,% ≤	1.5	ASTM D5668

Application

- ▶ HI-861: Mixing with SAN resin to produce ABS Resin. It is recommended to use SAN-327(Daqing Petro) and SAN-168(Guoheng Petro), as their nitrile content matches HI-861 best.The mixing ratio is generally between 23-28 / 77-72, which can achieve the ideal physical properties.
- ▶ HI-961: As impact modifier, it is used to toughen ABS, PC/AB, PVC, etc. Both new and recycled materials can improve their impact strength by adding a certain proportion of HI861.

Application Data

T1: HI-861 /SAN(Chimei D-168):25 / 75			T2: HI-861 /SAN(LG 80HF):25 / 75		
Test item	Test condition	Test method	T2	T1	Unit
LZOD impact strength	23℃, 2.5mm	ASTM D-256	248	255	J/m
	-30℃, 2.5mm	ASTM D-256	113	115	J/m
MFI	220℃×10kgf (98N)	ASTM D-1238	14.5	4.2	g/10min
Bending strength	23℃,0.10mm/mm/min	ASTM D-790	65.75	79.05	MPa
Flexural Modulus	23℃	ASTM D-790	1862	2107	Mpa
Tensile strength	23℃,50mm/min	ASTM D-638	44.05	48.54	Mpa
Elongation at break	23℃,50mm/min	ASTM D-638	17.42	10.23	%
Hardness	23℃	ASTM D-785	108	113.2	R
HDT	Annealed,120℃/h,1.8Mpa	ASTM D-648	--	98.9	℃
VSP	50℃/h	ASTM D-648	97.6	--	



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Package and Storage

20kg paper bag with PE liner

Should be stored in dry and ventilated storeroom. This product is non-dangerous.

For other operations, please refer to SDS instructions provided by the manufacturer.

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