



Acrylonitrile_Butadiene_Styrene (ABS)

Because of the range of ABS polymers that may be produced ,a wide range of properties is exhibited by these materials.Properties of particular importance are toughness and impact resistance,dimensional stability ,good heat distortion resistance and good low- temperature properties.

ABS is a grafted terpolymer that consists of acrylonitrile – butadiene- styrene dispersed in glassy matrix of styrene–acrylonitrile (SAN) copolymer. ABS has been known as a thermoplastic, but it also satisfies functioning as an alloy or modifier of other thermoplastics. There are to 41 different grades available for production as per license.

MAIN FUNCTION	GRADE NAME	Typical Applications
GENERAL PURPOSE	SD – 0150	Type writers, Monitor stand, Electrical parts, Fitting, Etc.
EXTRUSION	SH –0150	Refrigerator liner sheet , General sheet
	SV - 0157	Refrigerator liner.
HIGH MODULUS	HM- 0560	VCRs, Watches, Toys, OA equipments; Cassette recorders, etc.
HIGH GLOSS	HG- 0760H	Phone receivers, General home appliances, Cosmetic containers,Fridge door handle.





HEAT RESISTANT	HR- 0370F	Rice cookers, Microwave oven components and heater housing which require moderate levels of heat resistance
Flame Retardant	VH- 0800D	Computer monitors , printers , automotive facsimile machines , photocopy machines

Typical Properties of Acrylonitrile - Butadiene- Styrene

Property	Melt Flow Index (200 o C ,5kg)	Izod Impact Strength	Vicat Softening Point (5kg)	Tensile Strength at yield (Min)	Flexural Strength at yield (Min)	Flexural modulus (Min)	Rockwell Hardness (23o C)
Unit	gr /10 min	Kgf.cm/cm	o C	Kgf/cm2	Kgf/cm2	Kgf/cm2	R.Scale
Test	ASTM D- 256	ASTM D- 256	ASTM D- 1525	ASTM D- 638	ASTM D- 790	ASTM D- 790	ASTM D- 785
SD- 0150	1.4 – 2.2	19 – 25	96 – 100	430	570	19000	101 – 106
SH- 0150	0.9 – 1.3	18 – 26	97 – 102	420	570	19000	104 – 110
SV- 0157	0.3 – 0.9	27 – 35	97 – 103	400	580	19000	101 – 107
HM- 0560	2.0 – 3.0	10 – 16	105 – 109	520	650	20000	109 – 115
HG- 0760	2.5 – 3.5	18 – 24	93 – 99	410	600	20000	101 – 107
HR- 0370F	0.4 – 1.0	10 - 16	103 - 109	420	–	–	105 – 111
VH0800D	4.7- 7	12- 19	83- 87	400	580	26500	96- 100

Producer: Tabriz Petrochemical Company (TPC)

The above data are typical laboratory average. They are intended to serve as guides only.



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