



## SYNOL(Modified POM)

Properties	STANDARD ASTM	Unit	IB4601/ IB4701 Medium Flow (General) (Homo Poly)	IC4601/ IC4701 Low Flow (General) (Homo Poly)	ID 4601/ ID 4701 Low+Medium Flow (General) (Homo Poly)	IB4705 GF25  (Homo Poly)	IE4601/ IE4701 Medium Impact (General) (Co-polymer)	IF4601/ IF4701 (High Impact)  (Co-polymer)
<b>Flow</b> Melt Flow Index @ 190°C & 2.16 Kg load	D1238	gms/ 10 min	16-22	3 - 5	3 - 5	8 - 16	2-10	2 - 3
<b>Mechanical</b> Tensile Strength @ Yield 50 mm/min	D638	MPa	65-70	64 - 68	60 - 65	46 - 52	60 - 68	37 - 50
Tensile Elongation @ Yield	D638	%	15-22	19 - 26	18 - 28	17 - 24	15 - 28	18 - 28
Flexural Strength 5 mm/min	D790	MPa	86-100	75 - 90	60 - 75	65 - 75	60 - 75	40 - 48
Flexural Modulus	D790	MPa	2400-3000	2300 - 2700	2250 - 2600	3400 - 4000	2300 - 2650	2100 - 2600
Izod Notched Impact Strength	D256	J/m	80-100	95 - 140	140 - 150	82 - 92	70 - 120	100 - 150
<b>Thermal</b> Heat Deflection Temperature Under Load (B)1.82MPa	D 648	°C	100-110	90 - 110	80 - 110	112 - 120	80 - 110	80 - 100
Vicat Softening Temperature (B)	D 1525	°C	--	160 - 180	160 - 180	165 - 175	160 - 180	157 - 161
<b>Others</b> Density	D 792	gms/c c	1.39 - 1.42	1.40 - 1.42	1.39 - 140	1.40 - 1.42	1.40 - 142	1.32 - 1.40
Flammability Test @ 3mm thickness	UL 94		----	--	---	----	---	--
Filler Content	D 5630	%	-	--	-	24 -26	-	-

\* Typical values represent an average for the samples tested using standard procedures.

The data indicated are intended as guides and do not reflect product specifications for any particular property

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