TALC FILLED HOMOPOLYMER POLYPROPYLENE

SINPOLENE REINFORCED PP COMPOUND

Technical Data (April 10.00))

SINPOLENE TPP10xx is a series of talc filled homopolymer polypropylene designed for injection moulding. The difference in content and characteristics between the individual grades allows TPP10xx to meet the requirements for a wide range of applications, from speaker frames to pump housings in domestic applications and fan shrouds to heater housings in the automotive industry.

COMPOUND REFERENCE			TPP1010	TPP1020	TPP1030	TPP1040	TPP1040/3
PROPERTY	ASTM METHOD	UNITS					
MECHANICAL							
Tensile Yield Strength	D-638	MPa	39	39	38	37	36
Elongation at break	D-638	%	42	34	26	21	21
Flexural Strength	D-790	MPa	50	52	54	52	50
Flexural Modulus	D-790	GPa	2.18	2.65	3.11	3.53	3.50
Notched Izod Impact Strength @ 23 ^{o}C	D-256	J/m	28	25	25	25	25
THERMAL							
Heat Distortion Temp. @ 0.46 MPa	D-648	^{o}C	126	130	133	136	136
Vicat Softening Point, 1 kg	D-1525	^{o}C	153	153	154	154	155
PHYSICAL							
Specific Gravity	D-792	g/cc	0.953	1.024	1.114	1.218	1.218
Melt Flow Index	D-1238	g/10min	12	13	13	11	30.0
PROCESSING							
Mold Shrinkage**	D-955	%	1.0-1.4	0.8-1.0	0.7-0.9	0.6-0.8	0.6-0.8
APPLICATIONS			Appliance Housing	Automotives Components and Housings			Slide Holder

**The mould shrinkage values presented here are solely based on laboratory moulded test bars. Users are strongly advised to conduct their own evaluation of tooling values as variable factors such as part thickness & configuration, and moulding conditions could affect the part shrinkage.

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