



Mineral filled Compounds 矿物填充改性塑料

Mineralblend® compounds combine copolymer polyolefin with calcium carbonate, mica, talc and wollastonite for improved rigidity, dimensional stability, heat deflection temperature, creep resistant. Mineralblend® is a good alternative to Glass Fiber reinforced polypropylene compound for less demanding application. Mineralblend® is widely used in automotive bumpers, automotive headlamp housing, badges/license plate holders, body side moldings, motorcycle leg shield, elegant furniture, home appliances housings etc. All Mineralblend® compounds can be coloured to meet stringent aesthetic requirements. Product development personnel can opt for Mineralblend to replace PVC compound as it is less toxic and less abrasive for mold and toolings.

Mineralblend®改性塑料是在树脂中通过填充碳酸钙、云母、滑石粉、硅灰石等，以达到提高材料的刚性、尺寸稳定性、热变形温度等。在某些物性要求较低的情况下，Mineralblend®改性塑料可以取代玻纤增强改性塑料，以降低成本。Mineralblend®改性塑料广泛用在汽车保险杠、汽车灯壳、车牌框、高级家具，家电用品等。所有Mineralblend®改性塑料都可以为客户配色和着色，以达到客户在产品外观上的要求。

特点：耐高温，刚性好，低收缩，尺寸稳定，低成本。

应用：汽车内外饰件，保险杠，车灯壳，车牌框，空调压缩机外壳，摩托车车灯罩。



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Plastic Technologies Enlighten Life
www.cipresin.com

Mineralblend® Talc, Mica & Calcium Carbonate Filled Compounds (Polypropylene Based)

	TYPICAL PROPERTIES	ASTM TEST METHOD	UNITS	PP-1101	PP-1400	PP-1600	PP-1800	PP-1450	PP-1850	PP-1851	PP-2400	PP-2800	PP-3400A	PP-3450	PP-3850
	Filler Content (灰份)			8% Talc	20% Talc	30% Talc	40% Talc	20% Talc	40% Talc	40% Talc	20% Mica	40% Mica	20% CaCO ₃	20% CaCO ₃	40% CaCO ₃
	MECHANICAL / 机械性能														
1	Tensile Strength / 拉伸强度	D638	MPa	36	34	35	30	28	27	25	35	30	33	32	20
2	Elongation at break / 断裂伸长率	D638	%	35	70	55	14	>100	30	>10	12	10	50	30	15
3	Flexural Strength / 弯曲强度	D790	MPa	55	57	51	52	43	47	39	57	52	54	51	40
4	Flexural Modulus / 弯曲模数	D790	MPa	1725	2700	3120	3400	1720	3010	2250	2750	5400	2420	2400	2700
5	Notched Izod Impact Strength @ 23°C, 3.2mm Thickness 缺口冲击强度	D256	J/m	37	50	45	38	103	60	40	43	40	35	38	40
	PHYSICAL / 物理性能														
1	Specific Gravity / 比重	D792	g/cm ³	0.97	1.05	1.12	1.24	1.03	1.24	1.25	1.05	1.23	1.03	1.03	1.25
2	Melt Flow Index / 熔融指数	D1238	g/10min	10	10	9	7	6	7	7	10	7	17	28	19
3	Mold Shrinkage* / 成型收缩率	D955	%	1.3-1.6	1-1.4	0.9-1.2	0.7-1	1-1.4	0.7-1	0.7-1.0	0.9-1.2	0.6-1.00	1.2-1.5	1.3-1.6	0.8-1.10
	THERMAL / 热性能														
1	Heat Deflection Temp@0.45 MPa (66psi)	D648	°C	123	124	141	132	128	138	122	130	140	124	121	112
2	Heat Deflection Temp@1.82 MPa (264psi) 热变形温度	D648	°C	-	78	80	85	84	86	85	80	90	-	-	72
3	Flammability / 燃烧性能	UL 94	mm	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB	HB
	SUGGESTED PROCESSING PARAMETERS 建议操作参数														
1	Drying Temperature / 干燥温度		°C	100	100	100	100	100	100	100	100	100	100	100	100
2	Drying Time / 干燥时间		Hours	2	2	2	2	2	2	2	2	2	2	2	2
3	Processing (Melt) Temperature / 操作温度		°C	190-220	190-220	190-220	190-220	190-220	190-220	190-220	190-220	190-220	190-220	190-220	190-220
4	Mold Temperature / 模温		°C	60-70	60-70	60-70	60-70	60-70v	60-70	60-70	60-70	60-70	60-70	60-70	60-70

Applications:

Mineralblend® mineral filled compounds are used widely in automotive lighting housing and bezels, engine covers, automotive cooling fan, side moldings, motorcycles leg shield etc.

*The mold shrinkage values herein are solely based on our own laboratory testing specimens. Users are strongly advised to conduct their own test as molding conditions, mold design, thickness all play a part in determining the part shrinkage.

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