SUMITOMO CHEMICAL ASIA PTE LTD

Physical Properties of *SUMIPEX® ME Clear 011 and ME Red 4334*

12th February 2019

Sumitomo Chemical Asia Pte Ltd

Item		Test method	Unit	SUMIPEX® ME 011	SUMIPEX® ME 4334
Thermal	Coefficient of Linear Expansion	ISO 11359-2	1/°C	7×10^{-5}	7×10^{-5}
	Vicat Softening Point	ISO 306	°C	108	108
	Distortion Temperature Under Load 1.82MPa	ISO 75-2	°C	99	99
	Melt Flow Rate (MFR)230°C 37.3N (3.8kgf)	ISO 1133	g/10min	4.2	4.2
Mechanical	Tensile Strength at Break	ISO 527-2	MPa	76	76
	Tensile Strain at Break	ISO 527-2	%	4	4
	Flexural Strength	ISO 178	MPa	116	116
	Flexural Modulus	ISO 178	MPa	3100	3100
	Charpy Impact Strength (Notched)	ISO 179	KJ/m^2	1.4	1.4
	Rockwell Hardness	ISO 2039-2	M scale	100	100
Other	Specific Gravity	ISO 1183	-	1.19	1.19
	Mold Shrinkage	ISO 294-4	%	0.2 – 0.6	0.2 – 0.6
	Water Absorption	ISO 62	%	0.3	0.3
	Flammability	UL 94	-	HB	HB
Optical	Refractive Index	ISO 489	—	1.49	1.49
	Total light Transmission	ISO 13468-1	%	92	-
	Haze	ISO 14782	%	< 0.5	-
Color tone	Y(Thickness = 2mm)	JIS Z 8722	%	NA	28.6
	x (Thickness = 2mm)	JIS Z 8722	-	NA	0.667
	y (Thickness = 2mm)	JIS Z 8722	-	NA	0.328
	z (Thickness = 2mm)	JIS Z 8722	-	NA	0.005

*The above data for Sumipex® ME are typical laboratory values and are intended to serve as guides only.