

Properties

Property	Test Method	Test Condition	Unit	Anti Scratch Resin				
				XG568	XG569C	LUPOY SG5009FU	LUPOY SG5009F	
PHYSICAL PROPERTIES								
Specific Gravity	D792		-	1.12	1.12	1.19	1.19	
Mold Shrinkage	D955		%	0.3-0.6	0.3-0.6	0.4-0.6	0.4-0.6	
Melt Flow Index	D1238	220°C/10kg	g/10min	24	12	-	-	
		250°C/2.16kg	g/10min	-	-	25	15	
MECHANICAL PROPERTIES								
Tensile Strength at Yield	D638	50mm/min	kg/cm ²	560	590	630	650	
			Mpa	56	58	63	65	
Tensile Elongation	D638	50mm/min	at Yield	%	5	5	6	
			at Break	%	> 30	> 30	> 50	> 50
Flexural Strength	D256	15mm/min	kg/cm ²	950	980	1,000	1,050	
			Mpa	95	98	100	105	
Flexural Modulus	D790	15mm/min	kg/cm ²	28,000	29,000	27,000	27,500	
			Mpa	2,800	2,920	2,700	2,750	
Izod Impact Strength (Notched)	D256	1/4", 23°C	kg.cm/cm	7.5	9	9	7.5	
			J/m	73	88	88	73	
		1/4", -30°C	kg.cm/cm	3	4	-	-	
	D256	1/8", 23°C	kg.cm/cm	8.0	10.5	10.0	7.0	
			J/m	80	108	108	80	
		1/8", -30°C	kg.cm/cm	4	5	-	-	
D256	1/8", -30°C	J/m	40	49	-	-		
Rockwell Hardness	D785	R-Scale	-	119	120	119	120	
Gloss	-	-	-	97	97	97	97	
Pencil Hardness	-	-	-	F	H	F	H	
THERMAL PROPERTIES								
Heat Deflection Temp.	D648	18.5kg/cm ² , 1/4"	(annealed)	°C	90	91	89	91
			(unannealed)	°C	82	83	80	83
	D648	4.6kg/cm ² , 1/4"	(annealed)	°C	98	98	95	98
			(unannealed)	°C	93	93	90	93
Vicat Softening Temp.	D1525	5kg, 50°C/h	°C	85	86	84	86	
FLAMMABILITY								
Flammability	UL94	1.5 mm		HB	HB	V-0 (Halogen free)	V-0 (Halogen free)	