

Low rattle HUSHLLOY® -1

■ Concept



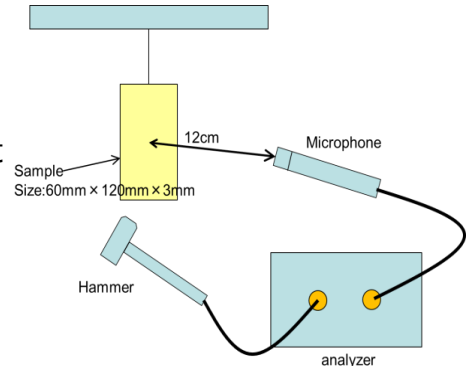
Low rattle noise from anti-squeak material HUSHLLOY®
Provides ABS DT100S and PC+ABS DT200S

■ Evaluation of Rattle (Techno-UMG Method)

Frequency and **Damping** of the sound are evaluated by hitting the sample specimen with the hammer at 20N

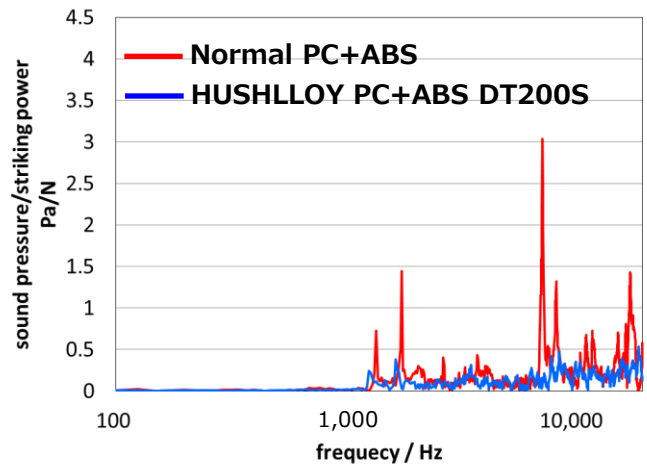
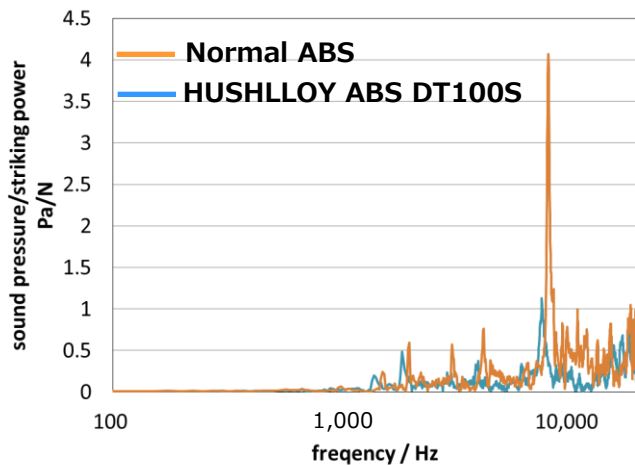
Frequency ... Higher frequency tends to create unpleasant rattle noise

Damping ... Shorter damping time tends to reduce rattle echo



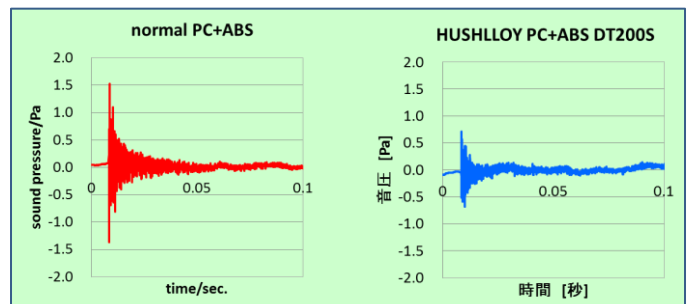
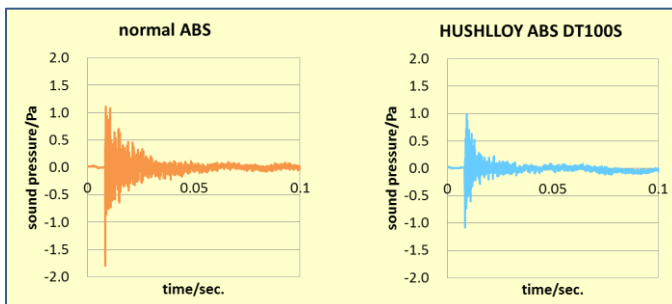
Frequency

The volume of higher frequency (> 1000Hz) of Rattle-reduced HUSHLLOY is lower than that of normal ABS and PC+ABS resin.



Damping

Damping time of hitting rattle of Rattle-reduced HUSHLLOY is shorter than that of normal ABS and PC+ABS resin.



Low rattle HUSHLLOY® - 2

■ Properties of Low rattle HUSHLLOY®

Properties		ABS type	PC+ABS type
		Low rattle HUSHLLOY DT100S	Low rattle HUSHLLOY DT200S
Tensile Strength (MPa)	ISO527	45	46
Flexural Strength (MPa)	ISO178	70	72
Flexural Modulus (MPa)	ISO178	2,270	1,950
Charpy Impact Strength (kJ/m ²)	ISO179	11	100
Rockwell Hardness	ISO2039	R103	R105
Melt Mass Flow Rate (g/10min.)	ISO1133	14 240°C,10kg	41 240°C,10kg
Temp. of Deflection (°C)	ISO75 (1.8MPa)	90	99
Vicat Softening Temperature (°C)	ISO306 (49N)	105	111
Density	ISO1183	1.04	1.10
Mold Shrinkage	ISO294-4	0.4-0.6	0.4-0.7
Stick-Slip test* (RPN)	Techno-UMG Method	Good (≤3)	Good (≤3)

* Based on VDA230-206 after 80°C 300hours heat aging.

RPN means: 1-3: low squeak risk 4-5:middle squeak risk 6-10: high squeak risk

Notice

- Each numerical value shown in this sheet is a typical value based on the specified testing method.
- The data and descriptions may be revised without notice based on new information.
- The user of the material is responsible solely for the final determination of safety and suitability.

