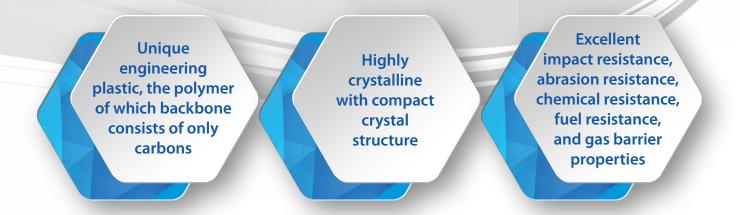
# **POKETONE** (Polyketone) What is it?



• Manufactured in Seoul, South Korea by Hyosung – Currently 110 Million lbs. per year of capacity with capacity authorization to double the output per year by 2020.

### Competing Resins: All Nylons, PBT, POM (Acetal)

#### Performance:

- High Impact Strength Impact/Fatigue (2X of POM)
- Excellent Chemical Resistance Automotive Fluids, Hydrocarbon Solvents, Salts
- Excellent Wear Resistance Wear and Friction better than POM
- Exceptional Barrier Properties Gasoline, Diesel (2X of PA12)
- Good Flame Retardancy Only half of flame retardant is necessary to meet UL V-0 Rating
- Stable Dimensions After 24 hours and in Moisture Environments

	PP	РОМ	РОК	PA6	<b>PA66</b>	PBT
Glass Transition Temp, Tg, °C	-35	-30	15	47	50	66
Crystalline Melting Pt, T <sub>m</sub> , °C	168	177	210	223	275	223
HDT, 66 psi (0.45 MPa), °C	104	156	205	160	200	154
HDT, 264 psi (1.8 MPa), °C	82	101	105	54	70	54
Specific Gravity	0.9	1.41	1.24	1.14	1.14	1.31
Moisture Absorption, 24hr/23 °C	0.05	0.2	0.3	1.2	1.2	0.25
Dimensional Change, 24hr/23 °C H <sub>2</sub> 0	0.0	0.0	0.2	3.0	2.7	0.0
Mold Shrinkage, in/in	0.012	0.020	0.020	0.016	0.018	0.018

#### Markets:

- Automotive Radiator End Tanks, Junction Box, Clip Holders, Cable Box, Fuel Tank Fuel Doors, Fuel Line, Connector, Wheel Cover
- Electrical/Electronics Electrical Switch, Gears, Connectors, CDU Stacker, Refrigerator Door Closer
- Appliance Water Meter, Water Filtration System, Pump Housings, and Water Filters
- Industrial Rail Fastening System, Conveyor Belts, Cosmetic Containers, Industrial Wheels, Helmet Components, Cable Ties, Oil Seal, Pipe and Tubing
- Medical Equipment Housings

## Injection Molders Benefits: Easy Mold Ability



Short Cycle Times – Low Clamp-force Requirements

• Easy Drying – (Not Sensitive to Humidity) – Superior Flow Ability

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