

Consumer Goods (Injection & Sheet)

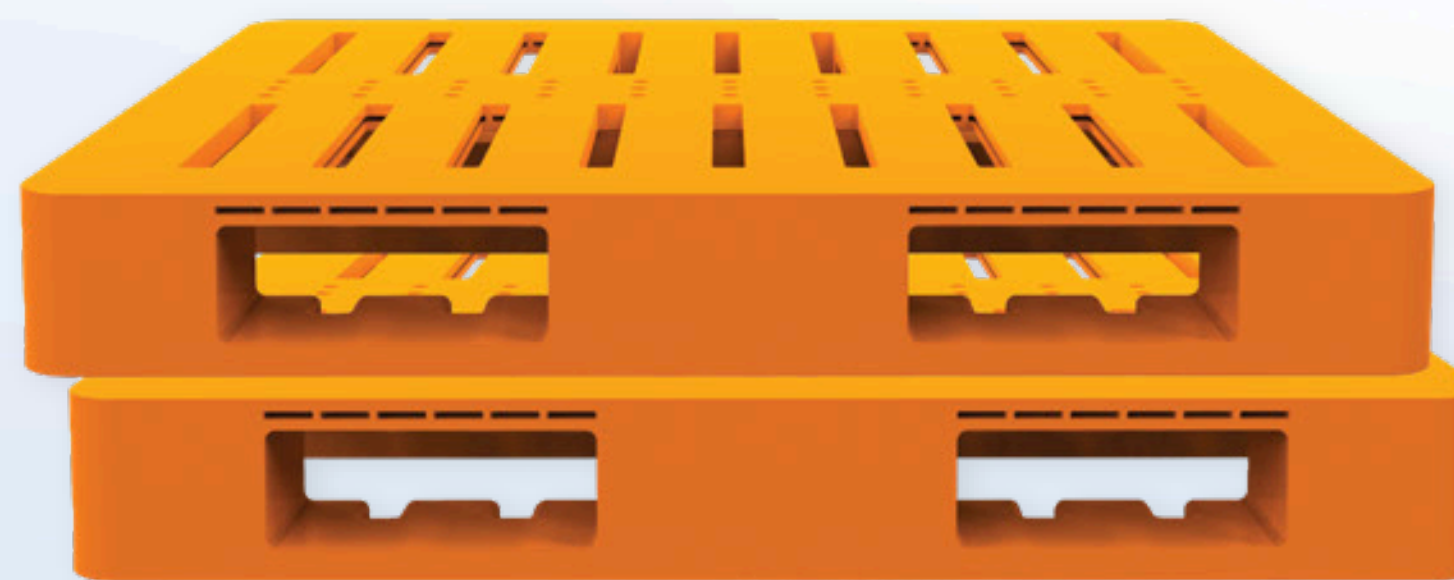
Rigid Packaging

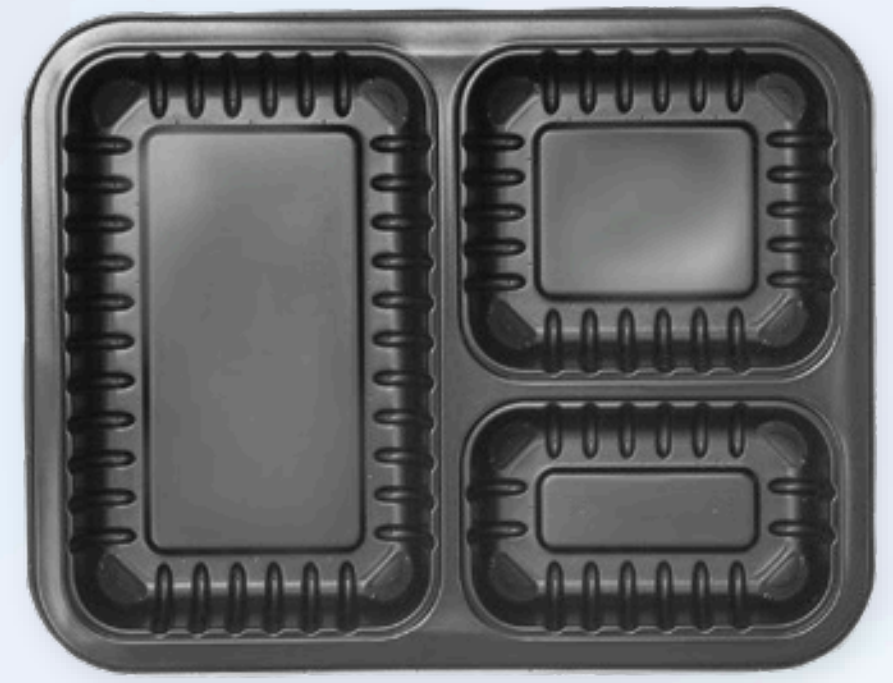


InnoPlus: HDPE						
Properties	Test Method	Unit	Injection			
			HD1010J	HD1600J	HD2208J	HD2308J
MFR (190 °C, 2.16 kg)	ASTM D1238	g/10 min	20	12	3.7	6
Density	ASTM D1505	g/cm ³	0.956	0.958	0.961	0.962
Melting Temperature	ASTM D3418	°C	130	132	134	136
Tensile Strength at Yield	ASTM D638	kg/cm ²	290	280	310	300
Tensile Strength at Break	ASTM D638	kg/cm ²	140	150	220	170
Elongation at Break	ASTM D638	%	200	210	>1,000	>1,000
Flexural Modulus	ASTM D790	kg/cm ²	12,000	12,500	13,000	15,000
Notched Izod Impact Strength	ASTM D256	kg.cm/cm	4 (C*)	3 (C*)	5 (C*)	4 (C*)
Durometer Hardness	ASTM D2240	shore D	64	64	65	65
Vicat Softening Point	ASTM D1525	°C	122	125	122	125
ESCR; 25% Igepal, F ₅₀	ASTM D1693	Hours	Initial	Initial	6	5
UV Stabilizer			No	No	Yes	Yes
End Product			Small part, Stationery, Household products, Toys		UV added for outdoor application, Garbage bins, Pallets, Crates	

Note : *C = Complete Break *P = Partial Break *NB = Non Break

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose. All above values are typical values, not to be construed as specification.





DIAREX: PS				
HIPS High Impact				
Properties	Test Method	Unit	Injection	Extrusion
			H350	H350E
MFR (200 °C, 5 kg)	ASTM D1238	g/10 min	3.5	2.6
Tensile Strength @ Yield*	ASTM D638	kg/cm ²	298	281
		lb/in ²	4,250	4,000
Tensile Elongation*	ASTM D638	%	55	53
Flexural Strength*	ASTM D790	kg/cm ²	420	386
		lb/in ²	6,000	5,500
Flexural Modulus (× 10,000)*	ASTM D790	kg/cm ²	1.9	1.8
		lb/in ²	27	26
Izod Impact Strength*	ASTM D256	kg.cm/cm	11	11
		ft.lb/in	2	2
Rockwell Hardness*	ASTM D785	Scale	R112	R112
Vicat Softening Point (1 kg)*	ASTM D1525	°C	104	101
		°F	219	213
Deflection Temperature* (18.56 kg/cm ²)	ASTM D648	°C	78	76
		°F	172	169
Underwriter Laboratory*	-	-	UL-94HB	UL-94HB

*Data based on injection molding test pieces.

DIAREX: PS						
GPPS Standard						
Properties	Test Method	Unit	Grade			
			THF77	THH102	THH103	TMF35
Physical Properties						
MFR (200 °C, 5 kg)	ASTM D1238	g/10 min	8.4	2.6	1.7	4.5
Density	ASTM D792	g/cm ³	-	-	-	1.05
Vicat Softening Point (1 kg)*	ASTM D1525	°C	101	106	107	104
		°F	214	223	225	219
Deflection Temperature* (18.56 kg/cm ²)	ASTM D648	°C	78	81	82	79
		°F	172	178	180	174
Mechanical Properties						
Tensile Strength @ Yield*	ASTM D638	kg/cm ²	470	530	543	485
		lb/in ²	6,700	7,500	7,700	6,900
Tensile Elongation*	ASTM D638	%	2	2.5	2.6	2.0
Izod Impact Strength*	ASTM D256	kg.cm/cm	2.2	2.2	2.2	2.2
		ft.lb/in	0.4	0.4	0.4	0.4
Rockwell Hardness*	ASTM D785	Scale	M80	M80	M80	M80
Underwriter Laboratory*	-	-	UL-94HB	UL-94HB	UL-94HB	UL-94HB
Type						GPPS Standard

*Data based on injection molding test pieces.