MYTEX POLYMERS
HIGH PERFORMANCE POLYMERS WORLDWIDE

MITSUBISHI CHEMICAL
Mitsubishi Chemical Group

PRODUCT DATA SHEET

MetaForm 7200

Description:	MetaForm 7200 is a ultra-high melt strength engineered polyolefin alloy specifically designed to provide an optimum balance of stiffness, cold temperature impact, and low thermal expansion. This material is supplied in Natural, UV stablized, and can be painted via standard TPO conditions, colored, and used with various polyolefin and paint film cap layers
Applications:	♦ Exterior and Interior parts ♦ Complex structural panels ♦ General pupose thermoforming
Markets:	♦ Automotive ♦ Industrial ♦ Power Motor Sports ♦ Heavy Truck / Mass transit ♦ Recreational Vehicles ♦ Construction / Agricultural

General Properties	Typical Value[1]	Units	Test Method [2]	Conditions
Melt Flow Rate	0.8	g/10 min	ISO 1133	230°C, 2.16 kg
Hardness	65	Shore D	ISO 868	Instaneous
Specific Gravity	1.10	-	ISO 1183	
Shrink Rate	0.65 – 0.85	%	ISO 294-4	23°C, 24 hrs
Mechanical Properties				
Flexural Modulus	325,000 (2,241)	psi (MPa)	ISO 178	Chord, 2 mm/min
Tensile Strength @ Yield	3,770 (26)	psi (MPa)	ISO 527	50 mm/min
Elongation @ Break	290	%	ISO 527	50 mm/min
Gardner Impact @ 23°C	> 320 (36)	in*lbs (J)	ASTM D5420	Ring in
@ 0°C	> 320 (36)			
@ -15°C	264 (30)			
Multi-Axial Impact @ -15ºC Ultimate Energy Failure	27 100% Ductile	J	ASTM D3763	2.2 m/s, < 10% velocity slowdown
Multi-Axial Impact @ -30ºC Ultimate Energy Failure	28 50% Ductile	J	ASTM D3763	2.2 m/s, < 10% velocity slowdown
Thermal Properties				
HDT @ 66 psi (0.455 MPa)	240 (116)	ºF (°C)	ISO 75	unnealed
@ 264 psi (1.80 MPa)	140 (60)	ºF (°C)	ISO 75	unnealed
CLTE	2.6 E-5 (4.7 E-5)	in/in/ºF (mm/mm/°C)	ISO 11359	-30°C to 80°C

(+) 18816996168
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