LNP™ COLORCOMP™ COMPOUND WX96084-WH9A496

PDXW96084S

DESCRIPTION

LNP COLORCOMP WX96084-WH9A496 is a compound based on Polybutylene Terephalate resin. Added features include: Custom Color White WH9A496.

TYPICAL PROPERTY VALUES

Revision 20191218

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield, 5 mm/min	45	MPa	ISO 527
Tensile Stress, break, 5 mm/min	40	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	22	%	ISO 527
Tensile Strain, break, 5 mm/min	22	%	ISO 527
Tensile Modulus, 1 mm/min	2100	MPa	ISO 527
Flexural Modulus, 2 mm/min	1900	MPa	ISO 178
Flexural Stress, yield, 2 mm/min	65	MPa	ISO 178
Tensile Modulus, 5 mm/min	2050	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	22	%	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	30	%	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	40	MPa	ASTM D 638
Tensile Stress, yld, Type I, 5 mm/min	41	MPa	ASTM D 638
Flexural Modulus, 1.3 mm/min, 50 mm span	1800	MPa	ASTM D 790
Flexural Stress, yld, 1.3 mm/min, 50 mm span	61	MPa	ASTM D 790
IMPACT			
Izod Impact, notched 80*10*4 +23°C	13.5	kJ/m²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	30	kJ/m²	ISO 179/1eA
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	NB	kJ/m²	ISO 179/1eU
Izod Impact, notched, 23°C	100	J/m	ASTM D 256
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D 4812
THERMAL			
Vicat Softening Temp, Rate B/50	180	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	53	°C	ISO 75/Af
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	125	°C	ISO 75/Bf
CTE, 23°C to 60°C, flow	1.5E-04	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	1.5E-04	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	180	°C	ASTM D 1525
HDT, 1.82 MPa, 3.2mm, unannealed	50	°C	ASTM D 648
PHYSICAL			
Density	1.5	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.03	%	ISO 62

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Water Absorption, (23°C/sat)	0.13	%	ISO 62
Mold Shrinkage, flow	2.3	%	SABIC method
Mold Shrinkage, xflow	2.2	%	SABIC method
Melt Volume Rate, MVR at 265°C/5.0 kg	87	cm³/10 min	ISO 1133
Specific Gravity	1.5	-	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.01	%	ASTM D 570
Water Absorption, 24 hours	0.08	%	ASTM D 570
Melt Flow Rate, 265°C/5.0 kgf	130	g/10 min	ASTM D 1238
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	240 – 265	°C	
Front - Zone 3 Temperature	260 – 270	°C	
Middle - Zone 2 Temperature	245 – 255	°C	
Rear - Zone 1 Temperature	220 – 230	°C	
Mold Temperature	80 – 100	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	rpm	

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