

HIVAL® 506060 NT

High Density Polyethylene

Nexeo Solutions, LLC.

Message:

HIVAL® 506060 NT is a high density polyethylene material. This product is available in North America and is processed by injection molding. HIVAL® The main characteristics of 506060 NT are: contact with food.

HIVAL® The typical application field of 506060 NT is: food contact application

General Information			
Features	Compliance of Food Exposure		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1		
	FDA 21 CFR 177.1520(c) 3.2		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.965	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (100% Igepal, F50)	< 3.00	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - 1% Secant	931	MPa	ASTM D638
Tensile Elongation (Break)	16	%	ASTM D638
Flexural Modulus - 1% Secant	1720	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (-40°C)	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	85.0	°C	ASTM D648
1.8 MPa, not annealed	48.9	°C	ASTM D648
Melting Temperature	118	°C	
Injection	Nominal Value	Unit	
Rear Temperature	232	°C	
Middle Temperature	243	°C	
Front Temperature	243	°C	
Nozzle Temperature	246	°C	
Processing (Melt) Temp	243	°C	
Mold Temperature	7.22 - 18.3	°C	
Injection Pressure	2.76 - 10.3	MPa	

Back Pressure	1.03 - 3.45	MPa
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Injection instructions

Screw Speed: SlowInjection Speed: Slow - FastAvoid excessive melt temperatures and long residence times as this could lead to thermal degradation.

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Recommended distributors for this material

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