NEXEO° solutions HIVAL® 506060 NT

Nexeo Solutions, LLC. - High Density Polyethylene

Monday, November 10, 2014

General Information				
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Material Status	Commercial: Active			
Availability	North America			
Features	Food Contact Acceptable			
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.1 • FDA 21 CFR 177.1520(c) 3.2			
Appearance	Natural Color			
Forms	Pellets			
Processing Method	Injection Molding			

ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Density	0.965	g/cm³	ASTM D1505	
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238	
Environmental Stress-Cracking Resistance			ASTM D1693	
100% Igepal, F50	< 3.00	hr		
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus - 1% Secant	135000	psi	ASTM D638	
Tensile Elongation (Break)	16	%	ASTM D638	
Flexural Modulus - 1% Secant	250000	psi	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (-40°F)	0.90	ft·lb/in	ASTM D256	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load (66 psi, Unannealed)	185	°F	ASTM D648	
Deflection Temperature Under Load			ASTM D648	
264 psi, Unannealed	120	°F		
Melting Temperature	244	°F		

Processing Information			
Injection	Nominal Value	Unit	
Rear Temperature	450	°F	
Middle Temperature	470	°F	
Front Temperature	470	°F	
Nozzle Temperature	475	°F	
Processing (Melt) Temp	470	°F	
Mold Temperature	45.0 to 65.0	°F	
Injection Pressure	400 to 1500	psi	
Back Pressure	150 to 500	psi	
Injection Notes			

Screw Speed: Slow

Injection Speed: Slow - Fast

Avoid excessive melt temperatures and long residence times as this could lead to thermal degradation.



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The information presented on this datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

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Notes

¹ Typical properties: these are not to be construed as specifications.



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