

HIVAL® 506060

High Density Polyethylene
Nexeo Solutions, LLC.



Technical Data

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
Search for UL Yellow Card	• Nexeo Solutions, LLC. • HIVAL®
Availability	• North America
Features	• Food Contact Acceptable
Uses	• Pails
Agency Ratings	• FDA 21 CFR 177.1520
RoHS Compliance	• RoHS Compliant
Forms	• Pellets
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 Strength (Yield)	28.1 MPa	ASTM D638
Tensile Elongation (Break)	48 %	ASTM D638
Flexural Modulus - 1% Secant	1180 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact (-40°C)	77 J/m	ASTM D256
Tensile Impact Strength (-40°C)	313 kJ/m ²	ASTM D1822

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	71.1 °C	ASTM D648
1.8 MPa, Unannealed	42.2 °C	
Melting Temperature	136 °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 to 18.3 °C
Injection Pressure	2.76 to 10.3 MPa
Injection Rate	Slow-Moderate
Back Pressure	1.03 to 3.45 MPa

Injection Notes

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

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

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