

AMERICOLENE® AH53N-91



Polypropylene Homopolymer (PP Homo)

Americolene® AH53N-91 is a generic, prime, is a high flow rate nucleated and lightly lubricated homopolymer polypropylene designed for high-speed injection molding of thin-walled parts requiring good stiffness and fast cycle times. Typical applications are:

Media Packaging Consumer Products Housewares
Thin-wall Rigid Packaging Food Service Items

Americolene® AH53N-91 meets the requirements of the U.S. Food and Drug Administration of 21 CFR 177.1520

Nominal Physical Properties:

PROPERTY	ASTM TEST METHOD	UNIT	VALUE
Typical Resin Properties for AH53N-91:			
Melt Index 190 °C / 2.16 KG	D1238	g/10 min.	53.0
Density	D792	g/cc	0.914
Injection Molded Samples			
Tensile Strength (2 in/min)	D638		
@ Yield		38.1 MPa	5,517 psi
@ Break		27.5 MPa	3,993 psi
Elongation (2 in/min)	D638		
@ Yield		8.5 %	8.5 %
@ Break		19.3 %	19.3 %
Flexural Modulus	D790A		
1% Secant		1,740 MPa	259,000 psi
Notched Izod Impact Strength	D256		
@ 23 C		2.61 kJ/m ²	0.50 ft-lbf/in
Hardness	D785		
Rockwell R		107	107
Heat Deflection Temperature	D648		
@ 66 psi (455 kPa)		114 C	237 F
Haze @ 23°C, 50-mil (1.3mm) plaque	D1003		
% Diffuse Transmittance		54 %	54 %
Gloss at 60 ° angle	D2457	92	92
Shrinkage at 23°C, in/in	D995		
MD		1.53 %	1.53 %
TD		1.71 %	1.71 %

* MD / TD

Published 02/01/13, Revised 11/10/21

Any inquiries regarding this data sheet should be addressed to: 11824 Jollyville Rd Austin, TX 78759 · Phone (800) 729 5417 · Fax: (512) 992 0225

The information and recommendation in this publication are, to the best of knowledge, reliable. Suggestions concerning uses are only the opinion of AMERICORP INTERNATIONAL LTD, U.S.A. and users should perform their own tests to determine the suitability of this products for their own particular purposes. However, because of the numerous factors affecting the results, AMERICORP INTERNATIONAL LTD, U.S.A. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSES, other than that the material conforms to the applicable current standard specifications statement herein, therefor, should not be construed as representations or warranties. The responsibility of AMERICORP INTERNATIONAL LTD, U.S.A. for claims arising out of breach warranty, negligence, and strict liability or otherwise is limited to the purchase price of the material. Statement concerning the use of the products of AmeriCorp described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed