

CERTENE™ PHI-12

Polypropylene Homopolymer
Muehlstein

Message:

PHI-12 is a certified prime grade specially designed for fiber applications featuring High melt flow. PHI-12 applications include staple fiber and oriented yarn. PHI-12 complies with FDA regulation 21CFR 177.1520(a)(3)(i)/(c)3.2 concerning the Polypropylene use in contact with food articles, not to exceed 100°C.

General Information			
Features	Food Contact Acceptable		
	High Flow		
Uses	Fibers		
	Staple Fibers		
	Yarn		
Agency Ratings	FDA 21 CFR 177.1520(a) 3 (i)		
	FDA 21 CFR 177.1520(c) 3.2		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness ¹ (R-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	37.7	MPa	ASTM D638
Tensile Elongation (Yield)	8.0	%	ASTM D638
Flexural Modulus ²	1680	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³ (23°C)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁴ (0.45 MPa, Unannealed)	94.0	°C	ASTM D648
Vicat Softening Temperature ⁵	155	°C	ASTM D1525
NOTE			
1.	Tests made on injection-molded Type 1 tension test specimens 1/8' (3.2mm) thick molded according to ASTM D 2146.		

2.	ASTM D638 Type 1 specimen, molded and tested in accordance with ASTM D4101.
3.	Tests made on injection-molded Type 1 tension test specimens 1/8" (3.2mm) thick molded according to ASTM D 2146.
4.	Tests made on injection-molded Type 1 tension test specimens 1/8" (3.2mm) thick molded according to ASTM D 2146.
5.	Tests made on injection-molded Type 1 tension test specimens 1/8" (3.2mm) thick molded according to ASTM D 2146.

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

