

TOTAL Polypropylene PPH 3740WR

Polypropylene Homopolymer

TOTAL Refining & Chemicals

Message:

Easy Flow. Total Petrochemicals Polypropylene 3740WR exhibits exceptionally easy flow characteristics.

FDA. 3740WR complies with all applicable FDA and USDA regulations and may be used under these provisions for food contact and packaging.

Recommended Applications. 3740WR is recommended for injection molding medical applications requiring high stiffness and good gamma radiation stability up to 50 kGy.

Processing. 3740WR resin processes on conventional injection molding equipment with typical melt temperatures of 350-450°F (177-232°C). Call the nearest Total Petrochemicals Polypropylene Sales Office for additional information.

General Information			
Additive	Nucleating Agent		
Features	Food Contact Acceptable		
	Good Flow		
	High Stiffness		
	Nucleated		
	Radiation (Gamma) Resistant		
Uses	Food Packaging		
	Medical/Healthcare Applications		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA Food Contact, Unspecified Rating		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	75		ASTM D1706
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1650	MPa	ASTM D638
Tensile Strength (Yield)	37.2	MPa	ASTM D638
Tensile Elongation (Yield)	7.0	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	16	J/m	ASTM D256A
Instrumented Dart Impact (3.18 mm)	0.565	J	Internal Method

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	116	°C	ASTM D648
Melting Temperature	165	°C	DSC
Heat Deflection Temperature - 4.64 kGy/cm ²	116	°C	ASTM D648
Injection	Nominal Value	Unit	
Processing (Melt) Temp	177 to 232	°C	

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

