

Total PPH 3281 Polypropylene, Extrusion Grade

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Extrusion Grade

Material Notes:

Low melt flow homopolymer for sheet extrusion, strapping, and in-line thermoforming applications. **Melt Strength** – The high melt strength of FINA 3281 allows uniform drawdown during processing, resulting in maximum line speeds and a good balance of physical properties. **Process Stability** – Excellent polymer stability of FINA 3281 produces consistent product properties during extrusion, even with the use of regrind. **FDA** – FINA 3281 complies with all applicable FDA regulations and may be used under these provisions for food contact applications. **Recommended Applications** -- FINA 3281 is recommended for sheet and strapping applications where high melt strength and high extrusion speeds are required. **Processing** – FINA 3281 resin processes on conventional extrusion equipment with typical melt temperatures of 390-450°F (200-232°C). Data provided by the manufacturer, Total Petrochemicals. Total Petrochemicals acquired former Fina and Atofina plastics product lines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPH-3281-Polypropylene-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ASTM D1505
Melt Flow	1.1 g/10 min	1.1 g/10 min	ASTM D1238L

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	90	90	ASTM D288A
Hardness, Shore D	81	81	ASTM D1706
Tensile Strength, Ultimate	34.0 MPa	4930 psi	ASTM D638
Elongation at Break	8.0 %	8.0 %	ASTM D638
Modulus of Elasticity	1.515 GPa	219.7 ksi	ASTM D638
Flexural Modulus	1.38 GPa	200 ksi	ASTM D790
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256A
Izod Impact, Unnotched	15.9 J/cm	29.8 ft-lb/in	ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C	55.6 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	165 °C	329 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	104 °C	219 °F	ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 232 °C	392 - 450 °F	Extrusion

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