TOTAL Polypropylene PPH 3281

Polypropylene Homopolymer

TOTAL Refining & Chemicals

Message:

The high melt strength of TOTAL Polypropylene 3281 allows uniform draw down during processing, resulting in maximum line speeds and a good balance of physical properties.
Excellent polymer stability of TOTAL Polypropylene 3281 produces consistent product properties during extrusion, even with the use of regrind.
TOTAL Polypropylene 3281 complies with all applicable FDA regulations and may be used under these provisions for food contact applications.
TOTAL Polypropylene 3281 is recommended for sheet and strapping applications where high melt strength and high extrusion speeds are required.

General Information	
Features	Food Contact Acceptable Good Melt Strength Low Flow
Uses	Sheet Strapping
Agency Ratings	EC 1907/2006 (REACH) FDA Food Contact, Unspecified Rating
RoHS Compliance	RoHS Compliant
Forms	Pellets
Processing Method	Sheet Extrusion Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.3	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	90		ASTM D785
Durometer Hardness (Shore D)	81		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1520	MPa	ASTM D638
Tensile Strength (Yield)	33.8	MPa	ASTM D638
Tensile Elongation (Yield)	8.0	%	ASTM D638
Flexural Modulus	1380	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	43	J/m	ASTM D256A
Unnotched Izod Impact (23°C)	1600	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**

Deflection Temperature Under Load (0.45 MPa, Unannealed)	104	°C	ASTM D648
Melting Temperature	166	°C	DSC
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696

Extrusion	Nominal Value	Unit
Melt Temperature	199 to 232	°C

Recommended distributors for this material

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