MULTIFLEX™ TPO 4203 SI1 NATURAL 27917

POLYOLEFIN THERMOPLASTIC ELASTOMER

Rheological properties

Melt volume-flow rate	6	cm³/10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Moulding shrinkage, parallel	1.0	%	ISO 294-4, 2577
Flow length	330	mm	

Typical mechanical properties

Stress at break	16	MPa	ISO 527-1/-2 or ISO 37
Elongation at break	120	%	ISO 527-1/-2 or ISO 37
Flexural Modulus	440	MPa	ISO 178
Izod notched impact strength, -45°C	55	kJ/m²	ISO 180/1A
Shore D hardness, 15s	38		ISO 48-4 / ISO 868
Tear strength, parallel	96	kN/m	ISO 34-1

Other properties

Density	880	kg/m³	ISO 1183

Injection

Drying Recommended	no	
Melt Temperature Optimum	235	°C
Mold Temperature Optimum	30	°C
Min. mould temperature	20	°C
Max. mould temperature	40	°C
Hold pressure range	as low as possible	MPa
Back pressure	1	MPa
Injection speed	Medium	mm/s

Storage and stability

Shelf life	1800	days

Characteristics

Compatibility	Polyolefins

Additional information

Non Standard Data

PROPERTIES	UNITS	STANDARDS	VALUES
Tensile strength at break at -35°C	MPa	ISO 527-2/5A/500	29
Elongation at	%	ISO 527-2/5A/500	40

MULTIFLEX™ TPO 4203 SI1 NATURAL 27917

POLYOLEFIN THERMOPLASTIC ELASTOMER

	break at -35°C			
	Tear strength at -35°C	KN/m	ISO 34	175
	Flexural modulus 3 points at 85°C	MPa	ISO 178	120
	Tensile strength at break at 85°C	MPa	ISO 527-2/5A/500	7
	Elongation at break at 85°C	%	ISO 527-2/5A/500	290
	Tear strength at 85°C	KN/m	ISO 34	65

Injection molding	Drying before moulding is normally not required, but may be needed if the product is stored in a high humidity environment. Lower temperature on the moving part of the mould is prefered.

DuPont

Please refer to DuPont Medical Application Policy before any use of DuPont material in a medical application- Position Statements | DuPont .

Do not use DuPont products in medical application involving permanent implantation (more than 29 days) in the human body or contact with internal body fluids or tissues (for more than 29 days) unless the product has been provided from DuPont under a written contract that is consistent with the DuPont policy regarding medical applications and expressly acknowledges the contemplated use.

Although these products may have been tested in accordance with certain USP Class VI or ISO 10993 standards, DuPont makes no representation or warranty, express or implied, regarding the suitability of its products for any particular healthcare or medical application, nor does it make any other representations or warranties based on such testing. Customers are solely responsible for determining whether DuPont products are suitable for their intended purpose and for ensuring legal and regulatory compliance of the product in final application. DuPont disclaims any and all liability for incidental, special, or consequential damages arising out of or relating to the customer's use of DuPont products.

The information, suggestions, and data (collectively referred to as "Information") set forth herein are based on technical data that DuPont believes to be reliable and fall within the normal range of properties. Such Information is provided for informational purposes only and is not intended to substitute for any testing necessary to determine the suitability of a particular material for a specific purpose. The Information is to be used and relied upon at the user's sole discretion and risk. DuPont makes no warranties, express or implied, and disclaims any and all liability, whether direct or indirect, for damages or losses arising out of or relating to the use of the Information, suggestions, data, or materials described herein.

Statements concerning the use of the products or formulations described herein are not to be construed as recommending the infringement of any patent, copyright, designs or other intellectual property and no liability for infringement arising out of such use is assumed by DuPont. None of this information is to be considered as a license to operate under, or recommendation to infringe, any patents.