

## DuPont Performance Polymers Hytrel® DYM1300 BK320 TPC-ET (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyester, TP , Polyester Thermoplastic Elastomer

### Material Notes:

Hytrel® DYM1300 is a high performance thermoplastic elastomer with high modulus, suited for air bag door applications. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Hytrel-DYM1300-BK320-TPC-ET-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-DYM1300-BK320-TPC-ET-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.015 cm/cm @Thickness 2.00 mm	0.015 in/in @Thickness 0.0787 in	Parallel
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 240 °C	14 g/10 min @Load 4.76 lb, Temperature 464 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65 @Time 15.0 sec	65 @Time 0.00417 hour	ISO 868
Tensile Strength at Break	30.0 MPa @Temperature 23.0 °C	4350 psi @Temperature 73.4 °F	ISO 527 (1BA bar)
Tensile Stress	30.0 MPa @Strain 10.0 %, Temperature 23.0 °C	4350 psi @Strain 10.0 %, Temperature 73.4 °F	ISO 527 (1BA bar)
Elongation at Break	250 % @Temperature 23.0 °C	250 % @Temperature 73.4 °F	ISO 527 (1BA bar)
Tensile Modulus	1.35 GPa @Temperature 23.0 °C	196 ksi @Temperature 73.4 °F	ISO 527
Charpy Impact, Notched	1.00 J/cm <sup>2</sup> @Temperature -30.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1eA
	1.80 J/cm <sup>2</sup> @Temperature 23.0 °C	8.57 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	10°C/min; ISO 11357-1/-3

Processing Properties	Metric	English	Comments
Melt Temperature	245 °C	473 °F	Optimum; Injection Molding
	240 - 250 °C	464 - 482 °F	Injection Molding
Mold Temperature	45.0 °C	113 °F	optimum; Injection Molding
	<= 55.0 °C	<= 131 °F	Injection Molding
Drying Temperature	110 °C	230 °F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Moisture Content	<= 0.050 %	<= 0.050 %	Injection Molding

Descriptive Properties	Value	Comments
Appearance	Black Color	
Forms	Pellets	
Generic	TPC-ET+PBT	
Material Status	Preliminary Data	
Part Marking Code	>TPC-ET+PBT<	ISO 11469
Processing Method	Injection Molding	
Product Category	Air Bag Door Resins	
Region Available - Global	Yes	
Resin Identification	TPC-ET+PBT	ISO 1043
RoHS Compliance	Contact Manufacturer	

## Contact Songhan Plastic Technology Co.,Ltd.

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