

DuPont Performance Polymers Hytrel® DYM250S BK472 TPC-ET+PBT (Unverified Data**)

Category : Polymer , Thermoplastic , Polyester, TP , Polybutylene Terephthalate (PBT) , Polyester Thermoplastic Elastomer

Material Notes:

Medium Modulus Polyester Elastomer with Excellent Impact Resistance Developed for Air Bag Door Applications Hytrel DYM250S BK472 is a medium modulus resin suited for injection molding of Air Bag Deployment Doors. It has a nominal durometer hardness of 4 Information provided by DuPont Performance Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Hytrel-DYM250S-BK472-TPC-ETPBT-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	0.995 g/cc	0.0359 lb/in ³	
	1.16 g/cc	0.0419 lb/in ³	ISO 1183
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	ISO 294-4 2577
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ISO 294-4 2577
Melt Flow	13 g/10 min	13 g/10 min	cm ³ /10min; ISO 1133
	@Load 2.16 kg, Temperature 240 °C	@Load 4.76 lb, Temperature 464 °F	
	13 g/10 min	13 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 240 °C	@Load 4.76 lb, Temperature 464 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	44	44	15s; ISO 868
	<= 49	<= 49	ISO 868
Tensile Strength at Break	30.0 MPa	4350 psi	ISO 527-1/-2
Tensile Stress	7.80 MPa	1130 psi	ISO 527-1/-2
	@Strain 5.00 %	@Strain 5.00 %	
	9.70 MPa	1410 psi	ISO 527-1/-2
	@Strain 10.0 %	@Strain 10.0 %	
	12.5 MPa	1810 psi	ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	14.0 MPa	2030 psi	ISO 527-1/-2

Mechanical Properties	@Strain 100 % Metric	@Strain 100 % English	Comments
	18.0 MPa	2610 psi	ISO 527-1/-2
	@Strain 300 %	@Strain 300 %	
	0.280 MPa	40.6 psi	ISO 11403-1 -2
	@Strain 0.200 %, Temperature 90.0 °C	@Strain 0.200 %, Temperature 194 °F	
	0.670 MPa	97.2 psi	ISO 11403-1 -2
	@Strain 0.200 %, Temperature 23.0 °C	@Strain 0.200 %, Temperature 73.4 °F	
	1.51 MPa	219 psi	ISO 11403-1 -2
	@Strain 0.240 %, Temperature -40.0 °C	@Strain 0.240 %, Temperature -40.0 °F	
	3.90 MPa	566 psi	ISO 11403-1 -2
	@Strain 5.68 %, Temperature 90.0 °C	@Strain 5.68 %, Temperature 194 °F	
	6.93 MPa	1010 psi	ISO 11403-1 -2
	@Strain 21.48 %, Temperature 90.0 °C	@Strain 21.48 %, Temperature 194 °F	
	7.69 MPa	1120 psi	ISO 11403-1 -2
	@Strain 39.3 %, Temperature 90.0 °C	@Strain 39.3 %, Temperature 194 °F	
	10.13 MPa	1469 psi	ISO 11403-1 -2
	@Strain 10.62 %, Temperature 23.0 °C	@Strain 10.62 %, Temperature 73.4 °F	
	12.31 MPa	1785 psi	ISO 11403-1 -2
	@Strain 33.7 %, Temperature 23.0 °C	@Strain 33.7 %, Temperature 73.4 °F	
	23.18 MPa	3362 psi	ISO 11403-1 -2
	@Strain 7.28 %, Temperature -40.0 °C	@Strain 7.28 %, Temperature -40.0 °F	
	26.81 MPa	3888 psi	ISO 11403-1 -2
	@Strain 18.04 %, Temperature -40.0 °C	@Strain 18.04 %, Temperature -40.0 °F	
	27.29 MPa	3958 psi	ISO 11403-1 -2
	@Strain 28.8 %, Temperature -40.0 °C	@Strain 28.8 %, Temperature -40.0 °F	
Elongation at Break	>= 300 %	>= 300 %	ISO 527-1/-2

Mechanical Properties	600 % Metric	600 % English	Comments Nominal: ISO 527-1/-2
Tensile Modulus	0.295 GPa	42.8 ksi	ISO 527-1/-2
Flexural Modulus	0.350 GPa	50.8 ksi	ISO 178
Secant Modulus	0.0299 GPa	4.34 ksi	ISO 11403-1 -2
	@Strain 41.95 %, Temperature 23.0 °C	@Strain 41.95 %, Temperature 73.4 °F	
	0.076397 GPa	11.081 ksi	ISO 11403-1 -2
	@Strain 35.97 %, Temperature -40.0 °C	@Strain 35.97 %, Temperature -40.0 °F	
	0.0954 GPa	13.8 ksi	ISO 11403-1 -2
	@Strain 10.62 %, Temperature 23.0 °C	@Strain 10.62 %, Temperature 73.4 °F	
	0.125 GPa	18.1 ksi	ISO 11403-1 -2
	@Strain 21.63 %, Temperature -40.0 °C	@Strain 21.63 %, Temperature -40.0 °F	
	0.318 GPa	46.2 ksi	ISO 11403-1 -2
	@Strain 7.28 %, Temperature -40.0 °C	@Strain 7.28 %, Temperature -40.0 °F	
	0.335 GPa	48.6 ksi	ISO 11403-1 -2
	@Strain 0.200 %, Temperature 23.0 °C	@Strain 0.200 %, Temperature 73.4 °F	
	0.629 GPa	91.3 ksi	ISO 11403-1 -2
	@Strain 0.240 %, Temperature -40.0 °C	@Strain 0.240 %, Temperature -40.0 °F	
Tear Strength	90.0 kN/m	514 pli	normal; ISO 34-1
	110 kN/m	628 pli	parallel; ISO 34-1

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	48.0 °C	118 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	41.0 °C	106 °F	ISO 75-1/-2
Brittleness Temperature	-100 °C	-148 °F	ISO 974
Flame Spread	24 mm/min	0.94 in/min	ISO 3795 (FMVSS 302)

Thermal Properties	@Thickness 1.00 mm Metric	@Thickness 0.0394 in English	Comments
Descriptive Properties	Value		Comments
Delivery Form	Pellets		
Emission of organic compounds	9.3 µgC/g		VDA 277
Odour	class 4		VDA 270
Part Marking Code	>TPC-ET+PBT<		ISO 11469
Processing	Injection Moulding		
Regional Availability	Asia Pacific		
	Europe		
	Global		
	Near East/Africa		
	North America		
	South and Central America		
Resin Identification	TPC-ET+PBT		ISO 1043
Special Characteristics	Heat stabilised or stable to heat		
	Light stabilised or stable to light		
	U.V. stabilised or stable to weather		

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