

Arkema Group Pebax® MV 1041 SN 01 Polyether Block Amide (PEBA) (Dry)

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyether Block Amide (PEBA)

Material Notes:

POLYETHER BLOCK AMIDE (PEBA) hardness 60 shore D breathable (high permeability to H2O vapor,CO2,O2) permanent antistatic grade

Applications: breathable films (medical, textile....)ISO data provided by the manufacturer, Arkema.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Pebax-MV-1041-SN-01-Polyether-Block-Amide-PEBA-Dry.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in³	
Water Absorption	12 %	12 %	
Moisture Absorption at Equilibrium	1.0 %	1.0 %	Humidity Absorption
Melt Flow	7.3 g/10 min @Load 1.00 kg, Temperature 235 °C	7.3 g/10 min @Load 2.20 lb, Temperature 455 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	
Tensile Strength, Yield	17.0 MPa	2470 psi	50 mm/min
Elongation at Break	>= 50 %	>= 50 %	Nominal Strain; 50 mm/min
Elongation at Yield	26 %	26 %	50 mm/min
Tensile Modulus	0.253 GPa	36.7 ksi	1 mm/min
Charpy Impact Unnotched	NB	NB	
	NB	NB	Low Temp
Charpy Impact, Notched	NB	NB	
	1.14 J/cm² @Temperature -30.0 °C	5.43 ft-lb/in² @Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	170 °C	338 °F	10°C/min
Oxygen Index	22.9 %	22.9 %	

Optical Properties	Metric	English	Comments
Transmission, Visible	80 %	80 %	Mfr. reports 'Transparent' but doesn't quantify.

Electrical Properties	Metric	English	Comments
Electrical Resistivity	5.52e+12 ohm-cm	5.52e+12 ohm-cm	
Surface Resistance	5.96e+12 ohm	5.96e+12 ohm	
Dielectric Strength	43.5 kV/mm	1100 kV/in	
Dissipation Factor	0.00048	0.00048	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.00127	0.00127	
	@Frequency 100 Hz	@Frequency 100 Hz	

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