

GEON® Polymax D01-265F

GEON Performance Solutions - Thermoplastic Elastomer

Thursday, February 29, 2024

General Information

Product Description:

Color: Natural

Features: Excellent Strength and Toughness, Good Melt Strength, Excellent Heat and Abrasion Resistant.

Applications: Window and Door Seals, Profiles Extrusion, Industrial. Overmold to PP.

Typical Properties

Physical	English	SI Metric	Test Method
Hardness (Shore A, 10 sec)	45 A	45 A	ASTM D2240
Specific Gravity	0.95 g/cm ³	0.95 g/cm ³	ASTM D792
Mechanical	English	SI Metric	Test Method
Tensile Strength	479 psi	3.3 MPa	ASTM D412
Tensile Elongation at Break	340 %	340 %	ASTM D412
Tensile Stress @100% Strain	288 psi	1.99 MPa	ASTM D412
Tensile Stress @300% Strain	458 psi	3.16 MPa	ASTM D412
Apparent Viscosity			
392°F (200°C), 1340.5 1/s	68.5 Pa.s	68.5 Pa.s	ASTM D3835
392°F (200°C), 223.4 1/s	275.2 Pa.s	275.2 Pa.s	ASTM D3835

EXTRUSION PROCESSING PARAMETERS

Extrusion Conditions	English	SI Metric
Feed Zone Temperature	347-365 °F	175-185 °C
Compression Zone Temp.	355-375 °F	180-190 °C
Metering Zone Temp.	365-400 °F	185-205 °C
Extruder Head	375-410 °F	190-210 °C
Die	375-410 °F	190-210 °C
Suggested Maximum Regrind	20%	20%

Drying is not typically required. Drying Temperature is 175°F (80°C) for 2 hour if there is surface moisture.

Purge thoroughly before and after use of this product with a low melt flow polyethylene (PE) or polypropylene (PP).

Regrind-levels up to 20% can be used with Polymax TPE with minimum property loss.

(1) Data herein is typical and not to be construed as specifications.

(2) Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

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