



AMPLIFY™ TY 4817

The Dow Chemical Company - Functional Polymer

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General Information

Product Description

AMPLIFY™ TY 4817 Functional Polymer is an extrusion coating / lamination resin with excellent adhesion to corona treated PET, PVDC, oriented polypropylene (OPP), polyethylene, Ethylene acrylic acid copolymers or ionomers, printing inks aluminum foil, paper and glas. AMPLIFY™ TY 4817 Functional Polymer can be coextruded with polyamide (PA), EVOH, polyethylene, polypropylene and adhesive resins.

Main Characteristics:

- Adhesion to OPET, OPP, Toppan Printing GL-Film, aluminum foil, PE and PP

Complies with:

- U.S. FDA 21CFR 175.105

Consult the regulation for complete details.

General

Material Status	• Commercial: Active	
Availability	• Europe	• North America
Agency Ratings	• FDA 21 CFR 175.105	
Forms	• Pellets	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (190°C/2.16 kg)	8.0	g/10 min	ASTM D1238
MAH Graft Level ²	Low		Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	435	psi	ISO 527-2
Tensile Strength (Break)	1740	psi	ISO 527-2
Tensile Elongation (Break)	840	%	ISO 527-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature ³	127	°F	ISO 306
Melting Temperature	217	°F	DSC

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	581	°F

Notes

¹ Typical properties: these are not to be construed as specifications.

² Low: <0.25 wt%, Medium: 0.25-0.5. High: >0.5 wt%

³ ISO 306/A method