

**Product Texts**

FLEX NORYL™ WCV063 resin is a flexible, non-reinforced extrusion grade of Polyphenylene Ether (PPE) + Thermoplastic Elastomer (TPE) with a Shore D Hardness rating of 63. FLEX NORYL WCV063 resin was developed for evaluation in automotive wire + cable applications requiring ISO6722 Class A or B. It exhibits ultra-thin wall capability, good scratch abrasion and pinch resistance, high dimensional stability, low shrinkage and warpage, very low water absorption, chemical resistance, and good dielectric strength. Processing is typically conducted on standard extrusion equipment, and UL 1581 testing is conducted on 2.0mm wire with 0.12mm X 20 stranded copper conductor.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>33</b>	g/10min	ASTM D 1238
Temperature	<b>280</b>	°C	-
Load	<b>5</b>	kg	-

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Modulus	<b>840</b>	MPa	ASTM D 638
Tensile Strength at Yield	<b>28</b>	MPa	ASTM D 638
Tensile Strength at Break	<b>28</b>	MPa	ASTM D 638
Elongation at Break	<b>90</b>	%	ASTM D 638
Flexural Modulus	<b>720</b>	MPa	ASTM D 790
Shore D Hardness	<b>63</b>	-	ASTM D 2240
Izod Impact notched, 1/8 in	<b>560</b>	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	<b>170</b>	J/m	ASTM D 256
Temperature	<b>-30</b>	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
DTUL @ 66 psi	<b>82</b>	°C	ASTM D 648
DTUL @ 264 psi	<b>56</b>	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	<b>1030</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics**

**Chemical Resistance**

General Chemical Resistance

**Regional Availability**

Europe